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Federal Democratic Republic of Ethiopia

Central Statistical Agency

**The 2007/08(2000 E.C) Large and Medium Scale
Commercial Farms Sample Survey**

Results at Country and Regional Levels

(For Internal Use Only)

**Statistical Report on
Area and Production of Crops, and Farm Management
Practices**

**Addis Ababa
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STATISTICAL BULLETIN

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Chapter I

1. Background

Agriculture is the primary activity in Ethiopia, at present, 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 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.

Even though, Ethiopian agriculture have suffered for years from the use of backward and 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 five 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 and remain 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 five consecutive years, cannot be considered as an end by itself but could be taken as an indicator for the need of much more efforts to be made by the government and the concerned stakeholders to adopt and implement the available modern and improved agricultural technologies that help attain enhanced productivity and maintain sustainable development of the sector.

Thus, all efforts required to bring about the desired change/improvements on the overall performance of the agricultural sector as a whole, could only be successful, if and only if, policies, strategies, implementation plans and programs and related efforts are geared towards addressing the problems identified in the two agricultural sub-sectors. The two major agricultural sub sectors are:-

- a) **Private agricultural holding:** this sub-sector includes rural-urban small and fragmented privately owned agricultural holdings on which all types of agricultural activities such as crop production, livestock rearing...etc, are performed by the operator/holders to obtain agricultural produce for self/family consumption and sometimes for sell. However, over 95 % of the annual gross total agricultural output of the country is said to be generated from this sub-sector,

- b) **Commercial Farms:-** this sub-sector refers to the farms that include state and private commercial farms mainly established for the purpose of profit making by selling agricultural products at local market and/or abroad. These farms are commonly owned and operated by government, private companies and non-governmental institutions, such as private individual investors, 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 of Ethiopia.

This report is the second 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.) the first ever large and Medium Scale Commercial Farms Enumeration. Then after 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 documents, in the year 2007/08 (2000 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 which is the second of its type, 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 2007/08 (2000 E.C.) commercial farms sample survey.

2. Objectives of the 2007/08 (2000 E.C.) Large and Medium Scale Commercial Farms Survey

The major objectives of the 2007/08 (2000 E.C.) commercial farms sample survey are 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 covers all urban & rural parts of the country. A total of 1426 farms were planned to be covered. But the survey succeeded to cover 1130 farms.

Considering the cost and manageability of field work a sample of 1426 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 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 farms involved in crop production and livestock. For farms involved in crop production, cut off point is prepared. Farms having total area above the cut off point are selected with certainty where as farms having area below the cut off point are sampled using probability proportional to size, size being the total area 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 | 320 | 238 |
| Affar | 46 | 36 |
| Amhara | 374 | 316 |
| Oromia | 442 | 313 |
| Somalie | 29 | 29 |
| Benshangul-Gumuz | 30 | 27 |
| SNNPR | 111 | 104 |
| Gambella | 8 | 8 |
| Harari | 1 | 1 |
| Addis Ababa | 60 | 54 |
| DireDawa | 5 | 4 |
| Total | 1426 | 1130 |

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 20007/08 (2000 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 field in questionnaires...etc.

3.1 Training

Country experience indicates that, it is essential to provide instruction manual and training for survey enumerators and supervisor 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 2 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 pros and cons of 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 used 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, therefore, the data collection operation that was carried out during 2007/08 (2000 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 2007/2008 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 and Agricultural

Statistics Department 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 10 editors about 10 working days.

4.2 Data Entry, Cleaning and Tabulation

About 20 data encoders were assigned to undertake the data entry activity of the 2007/08 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 10 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 10 entry clerks around 15 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 2007/08 (2000 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 2007/08 (2000 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 2007/08 (2000 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 staple food crops, the production of grain crops in Ethiopia serves as a source of foreign currency earning that will be used as an input for all efforts being made to bring about sustainable economic growth in the country.

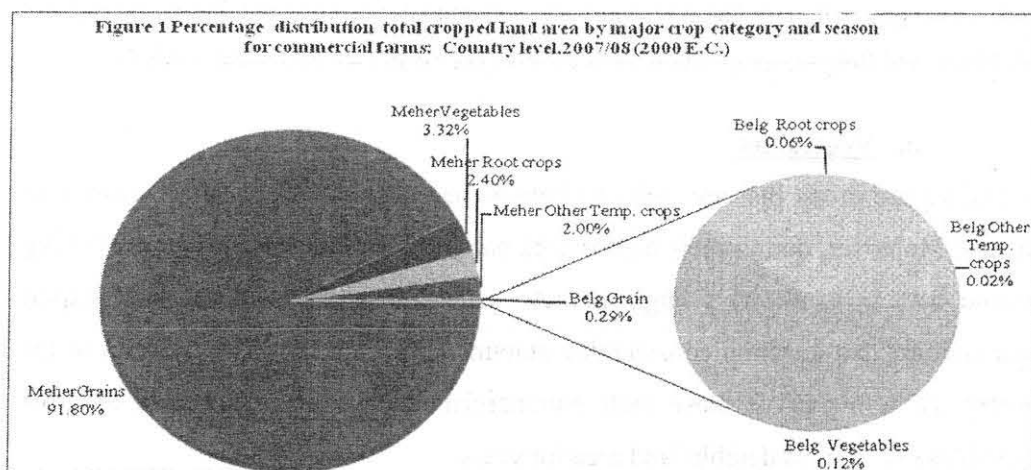
In Ethiopia, therefore, the production of grain crops is the most widely spread crop production activity both in terms of the extent of cropped land area and volume of production when compared with crops such as vegetable and root crops.

Summary Table 1: Estimates of Total Cropland Area by Major Crop Category and Season for Commercial farms: National level,2007/08 (2000 E.C.)

| Major Crop Category | Total Cropland area in Hectare | | | % Share from Both Seasons Total | |
|---------------------|--------------------------------|-------|---------|---------------------------------|------|
| | Season | | | Meher | Belg |
| | Meher | Belg | Both | | |
| Grain | 300,001 | 955 | 300,956 | 91.80 | 0.29 |
| Vegetables | 10,840 | 398 | 11,238 | 3.32 | 0.12 |
| Root crops | 7,834 | 201 | 8,036 | 2.40 | 0.06 |
| Other Temp. crops | 6,522 | 58 | 6,580 | 2.00 | 0.02 |
| All Temporary Crops | 325,197 | 1,612 | 326,810 | 99.51 | 0.49 |

According to the results of the 2007/08 (2000 E.C) Large and Medium scale Commercial Farms sample survey, the total grain crops covered area was found to be **300,956** hectares (92.09 % of the total country level temporary crops covered land area), from which a total of **5,518,185** quintals of production, (53.63 % of the total country level production of temporary crops) was obtained during 2007/08 both Meher and Belg seasons harvest .

From the above mentioned both seasons total cropped land area and production of grain crops, both the cultivated land area and volume of production obtained from crop production activity carried out during the 2007/08 Meher season, contributed the lion share. Accordingly Meher season accounted for 91.80 % (i.e. 300001 hectares) of the total both seasons temporary crops covered total land area (see summary Table 1 and figure.1) and 57.40% (5,496,033 quintals) from the total temporary crops production (see Summary Table 2 and figure2), while the remaining insignificant proportion of the cultivated area and production of grains were the contribution of the 2007/08 Belg season harvest (for the details see Summary Table 1 , 2 and figure 1 and2) .



Moreover, as it has been mentioned earlier, cereals which are classified with in the grain crops major crop 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 this 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, cereal covered a total of 158,830 hectares of land area, from which a production of 3,830,441 quintals was obtained during 2007/08 both Meher and Belg seasons harvest.

Similarly, pulses and oilseeds within the grain crops major category, which 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 the other, for the same reasons mentioned for cereals above. According to the results of the 2007/08 commercial farms sample survey, pulses and oil crops covered a total land area of 20,273 and 121,852 hectares, from

which a total production of 262,236 and 1,425,508 quintals was obtained during the 2007/08 both Meher and Belg seasons harvest, respectively (For details see Statistical Table 1).

b, Vegetables

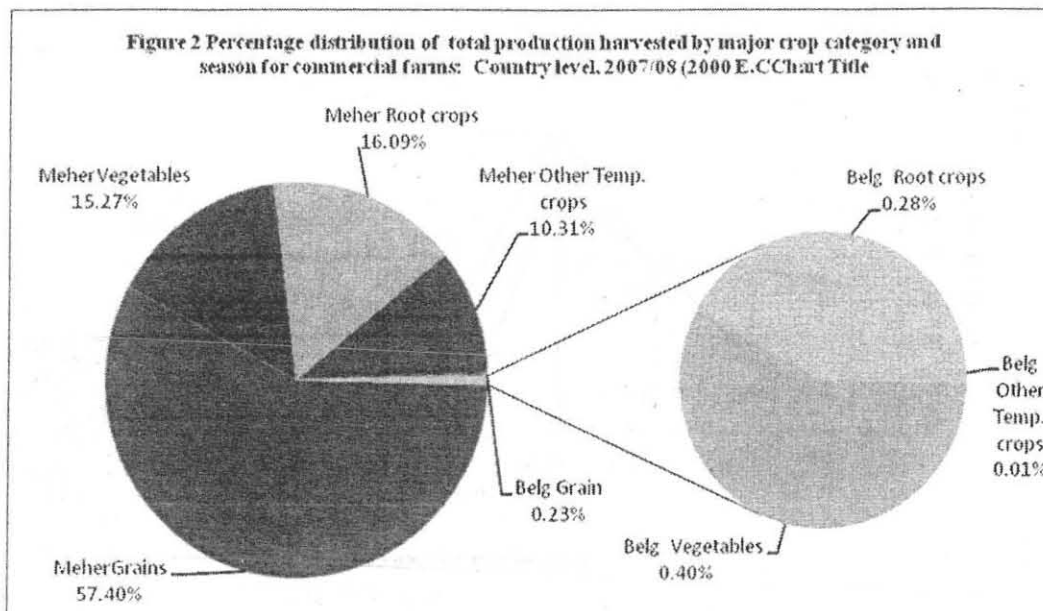
Vegetables are crops that are rich in vitamins necessary for the healthy growth of humans. Moreover, due to their high nutritional value vegetables do have ever rising demand both in local and foreign markets, and are classified among those export commodities' that generate considerable amount of foreign 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 11,238 hectares of land from which a total volume of 1,500,514 quintals was obtained in 2007/08 both Meher and belg seasons harvest.

Summary Table 2: Estimates of Total Production harvested by major crop category and season for commercial farms: National level,200/-08 (2000 E.C.)

| Major Crop Category | Total Production in Quintals | | | % Share from Both Seasons Total | |
|---------------------|------------------------------|--------|-----------|---------------------------------|------|
| | Season | | | Meher | Belg |
| | Meher | Belg | Both | | |
| Grain | 5,496,033 | 22,153 | 5,518,185 | 57.40 | 0.23 |
| Vegetables | 1,462,498 | 38,015 | 1,500,514 | 15.27 | 0.40 |
| Root crops | 1,540,562 | 26,782 | 1,567,344 | 16.09 | 0.28 |
| Other Temp. crops | 987,511 | 1,327 | 988,838 | 10.31 | 0.01 |
| All Temporary Crops | 9,486,603 | 88,277 | 9,574,880 | 99.08 | 0.92 |

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 Table 1 and 2).



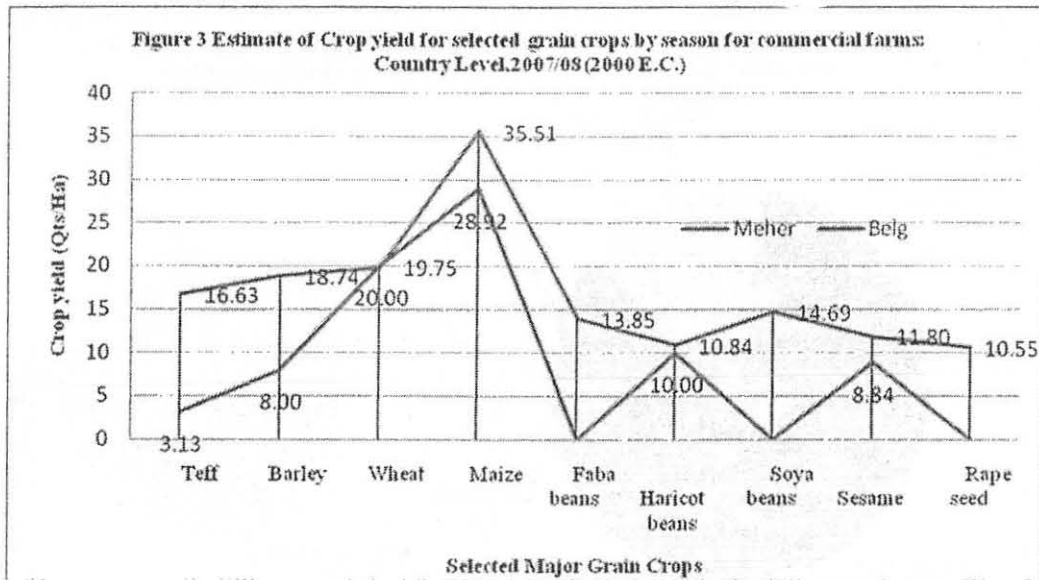
c, Root Crops

Like that of grain crops, the contribution of root crops such as potatoes and sweet potatoes...etc. 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.

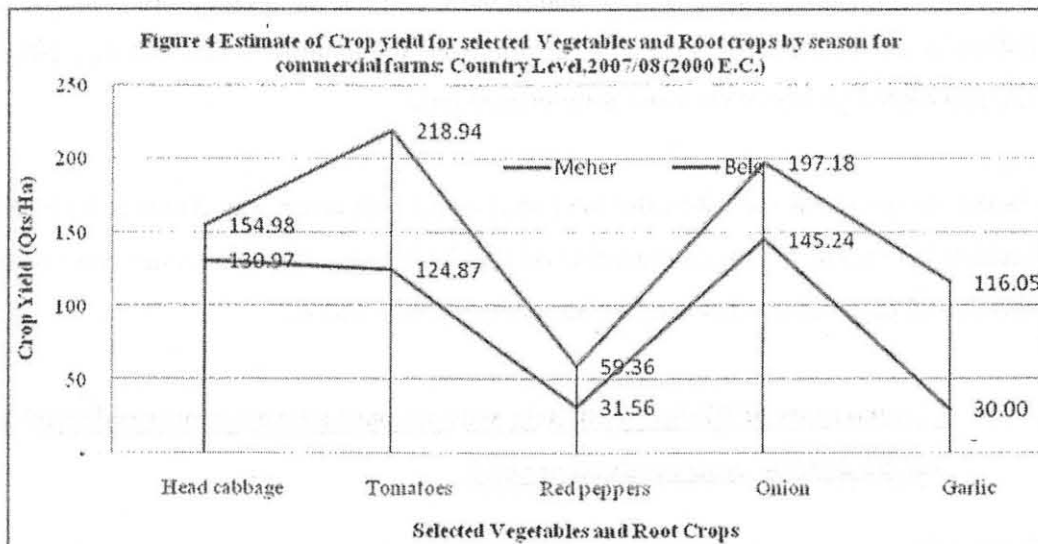
As the survey result indicates, the total area under root crops was found to be 8036 hectares, from which a total production of 1,567,344 quintals was obtained from both Meher and Belg seasons harvest See Summary Table 1 and 2 .

3.2.1 Comparisons of Meher with Belg seasons post harvest crop productivity during 2007/08 crop production year.

Despite the presence of adequate rain fall and favorable weather conditions during the 2007/08 both Meher and Belg crop-growing seasons, significant variations were observed in crop productivities attained in each of the respective seasons, that might be contributed by the seed variety and amount of modern inputs used i.e. due to difference in input application rate practiced.



For instance, looking at the 2007/08 both Meher and Belg seasons, the estimated crop productivity of the selected major food crops presented in figure 3 and 4, the crop productivity reported for each of the selected crops during the 2007/08 Meher season was nearly twofold higher as compared to the productivity reported for the same crops during the Belg season harvest of the same year (For details see Figure 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. 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 135,306 hectares with a total production of 30,578,492 quintals obtained from commercial farms during the year 2007/08 Meher season harvest.

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 4 Estimates of Cropped area and production of permanent crops by major crop category for commercial farms, 2007/08, Meher Season

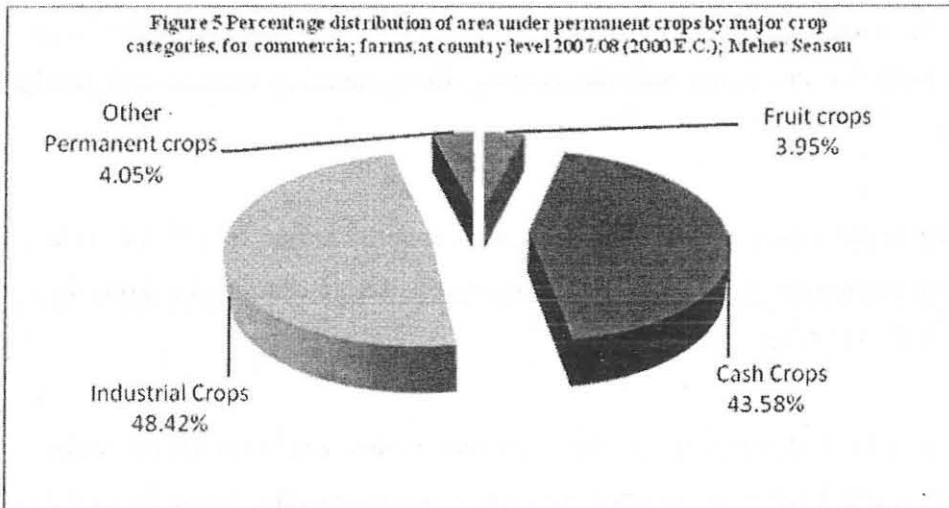
| Major Crop Types | Total | | | |
|------------------------------|-------------------|-------|----------------------|-------|
| | Cropped land area | | Production harvested | |
| | in Hectare | % | in Quintals | % |
| <i>Fruit crops</i> | 5,339 | 3.95 | 1,115,783 | 3.65 |
| <i>Cash Crops</i> | 58,965 | 43.58 | 740,063 | 2.42 |
| <i>Industrial Crops</i> | 65,522 | 48.42 | 28,645,905 | 93.68 |
| <i>Other Permanent crops</i> | 5,480 | 4.05 | 76,740 | 0.25 |
| Permanent Crops Totals | 135,306 | 100 | 30,578,492 | 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 indicate in Summary Table 4, fruit crops cover a total of 5,339 hectares (3.95% of the total crop land area under permanent crops), with about 1,115,783 quintals of

production (3.65% of the total permanent crops production), during the 2007/08 Meher season harvest (for the details see summary table 4, figure 5 & 6). Bananas, oranges and mangoes shared the highest area and production fruit crops (See Table 3.4)



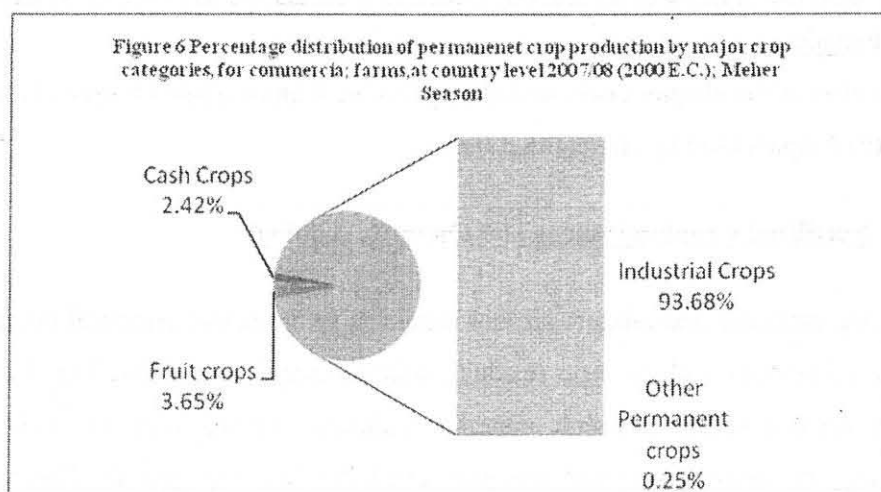
b, Cash/Stimulant crops

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 4 cash/stimulant crops were grown on an estimated total land area of 58,965 hectares, , with a total production estimated at 740063 quintals of production, contributing about 43.58% and 2.42 % to the total cropland area and production of permanent, respectively (For details see Summary Table 4).

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 65522 hectares (48.42% of the total area under permanent crops), with a total production of 28,645,905 quintals (93.68 % of the total permanent crops production), during the 2007/08 Meher season harvest.



3.4 FARM MANAGEMENT PRACTICE

3.3.1 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 2007/08 (2000 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.

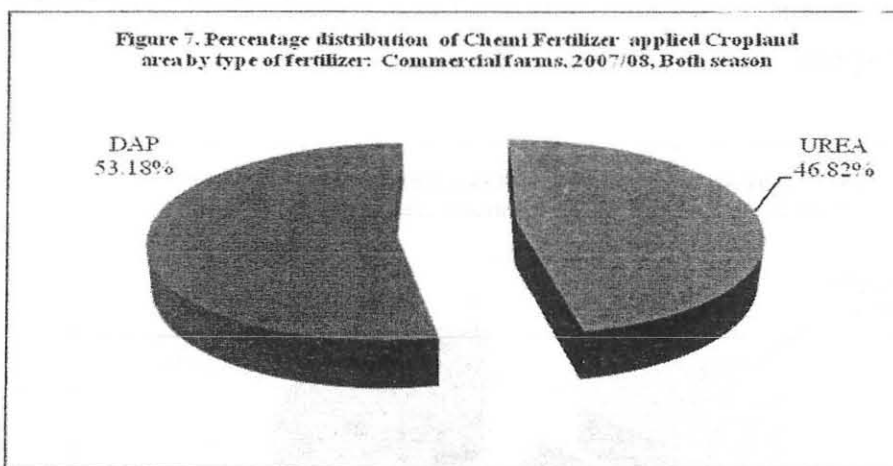
3.4.2 Cropland Area under Different Agricultural Input and Farm Management Practices.

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

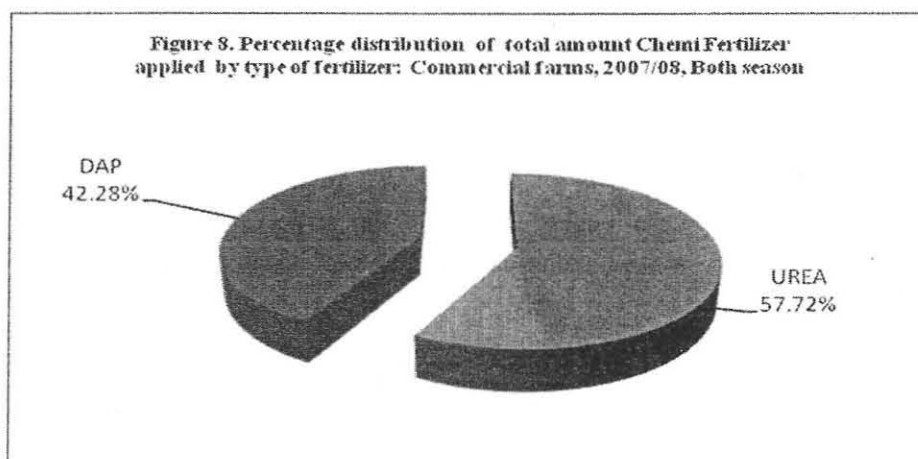
Fertilizing materials and mixture are not restricted to inorganic chemical but include organic substances such as crop residues, animal dung ...etc. Therefore, fertilizers refer to organic and/or inorganic materials added to the soil with the intention of increasing the amount of plant nutrients available for crop growth. However, in 2007/08 (2000 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 150,439 and 171,429 hectares, which accounted for 28.63% and 32.63% of the total cropland area reported for Commercial farms at country level, during the 2007/08 both Meher and Belg seasons harvest. (For details see Table 5)



b. Quantity of Chemical Fertilizer Applied

According to the results of the survey, the total quantity of chemical fertilizers applied during 2007/08 for commercial farms was found to be 393,485 quintals during Both Meher and Belg seasons. Out of which the share of UREA was 57.76% , while the remaining 42.24% share was found to be the contribution of DAP (For details see figure 8).

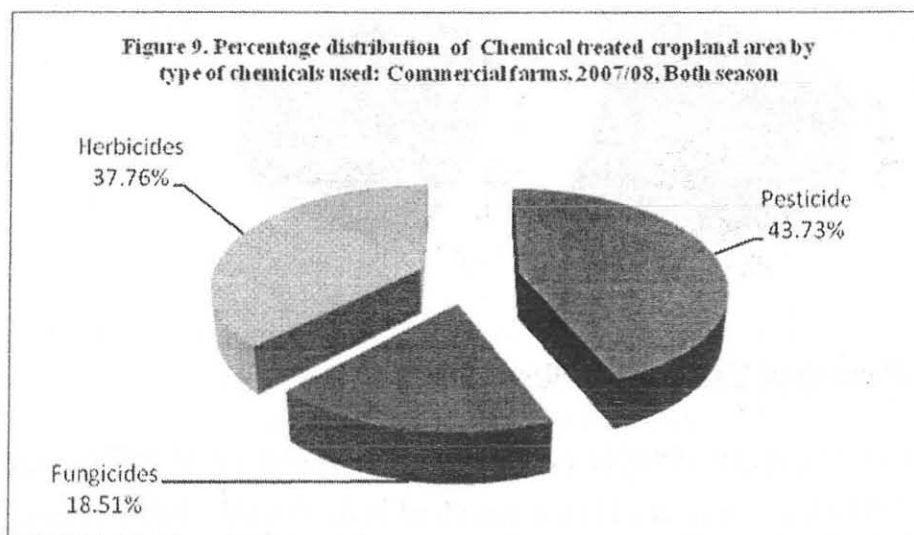


c. Cropland Areas Treated with Chemicals.

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 2 the total cropland area treated with pesticides, fungicides

and herbicides in commercial farms was found to be 144,176: 54,102 and 142,192 hectares of cropland area, respectively(For details see Table 4 and Figure 9).



National and Regional Statistical Tables
On Cropped Area and Production

Table 1 Estimates of Cropland Area and Production of Major Crops for Commercial Farms, 2007/08 (2000 E.C.), Both Seasons

Ethiopia

| 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 | % |
| Grain | 300001.05 | 100 | 954.89 | 100 | 300,955.94 | 100 | 5,496,032.54 | 100 | | 22,152.96 | 100 | | 5518185.50 | 100 |
| Cereals | 158038.16 | 52.68 | 792.25 | 83 | 158,830.41 | 52.78 | 3,809,735.85 | 69.32 | | 20,705.06 | 93.46 | | 3830440.91 | 69.41 |
| Teff | 4576.89 | 1.53 | 52.00 | 5.45 | 4,628.89 | 1.54 | 43,100.14 | 1.39 | 9.42 | 163.00 | 0.74 | 3.13 | 76295.14 | 1.38 |
| Barley | 613.67 | 0.20 | 0.50 | 0.05 | 614.17 | 0.20 | 11,497.69 | 0.21 | 18.74 | 4.00 | 0.02 | 8.00 | 11501.69 | 0.21 |
| Wheat | 33494.06 | 11.16 | 3.50 | 0.37 | 33,497.56 | 11.13 | 661,412.33 | 12.03 | 19.75 | 70.00 | 0.32 | 20.00 | 661482.33 | 11.99 |
| Maize | 53780.22 | 17.93 | 706.25 | 73.96 | 54,486.47 | 18.10 | 1,909,890.78 | 34.75 | 35.51 | 20,423.06 | 92.19 | 28.92 | 1930313.84 | 34.98 |
| Sorghum | 65508.86 | 21.84 | 0.00 | 0.00 | 65,508.86 | 21.77 | 1,149,940.69 | 20.92 | 17.55 | - | - | - | 1149940.69 | 20.84 |
| Finger millet | 58.02 | 0.02 | 30.00 | 3.14 | 88.02 | 0.03 | 775.73 | 0.01 | 13.37 | 45.00 | 0.20 | 1.50 | 820.73 | 0.01 |
| Oats / 'Aja' | 0 | - | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | 0.00 |
| Rice | 6.44 | 0.00 | 0.00 | 0.00 | 6.44 | 0.00 | 86.49 | 0.00 | 13.43 | - | - | - | 86.49 | 0.00 |
| Pulses | 20258.97 | 6.753 | 14.39 | 1.51 | 20,273.36 | 6.736 | 262,098.31 | 4.77 | | 137.90 | 0.62 | | 262236.21 | 4.75 |
| Faba beans | 429.83 | 0.14 | 0.00 | 0.00 | 429.83 | 0.14 | 5,955.19 | 0.11 | 13.85 | - | - | - | 5955.19 | 0.11 |
| Field peas | 10.21 | 0.00 | 1.50 | 0.16 | 11.71 | 0.00 | 104.96 | - | 10.28 | 9.00 | 0.04 | 6.00 | 113.96 | 0.00 |
| Haricot beans | 6298.68 | 2.10 | 12.89 | 1.35 | 6,311.57 | 2.10 | 68,257.01 | - | 10.84 | 128.90 | 0.58 | 10.00 | 68385.91 | 1.24 |
| Chick-peas | 3752.65 | 1.25 | 0.00 | 0.00 | 3,752.65 | 1.25 | 44,847.18 | 0.82 | 11.95 | - | - | - | 44847.18 | 0.81 |
| Lentils | 59.5 | 0.02 | 0.00 | 0.00 | 59.50 | 0.02 | 605.41 | 0.01 | 10.17 | - | - | - | 605.41 | 0.01 |
| Grass peas | 16.45 | 0.01 | 0.00 | 0.00 | 16.45 | 0.01 | 199.64 | 0.00 | 12.14 | - | - | - | 199.64 | 0.00 |
| Soya beans | 9648.6 | 3.22 | 0.00 | 0.00 | 9,648.60 | 3.21 | 141,702.40 | 2.58 | 14.69 | - | - | - | 141702.40 | 2.57 |
| Fenugreek | 43.05 | 0.01 | 0.00 | 0.00 | 43.05 | 0.01 | 426.52 | 0.01 | 9.91 | - | - | - | 426.52 | 0.01 |
| Oilseeds | 121703.92 | 40.57 | 148.25 | 15.53 | 121,852.17 | 40.49 | 1,424,198.38 | 25.91 | | 1,310.00 | 5.91 | | 1425508.38 | 25.83 |
| Neug | 1410.7 | 0.47 | 0.00 | 0.00 | 1,410.70 | 0.47 | 8,083.61 | 0.15 | 5.73 | - | - | - | 8083.61 | 0.15 |
| Linseed | 303.75 | 0.10 | 0.00 | 0.00 | 303.75 | 0.10 | 3,317.83 | 0.06 | 10.92 | - | - | - | 3317.83 | 0.06 |
| Groundnuts | 80.84 | 0.03 | 0.00 | 0.00 | 80.84 | 0.03 | 1,446.15 | 0.03 | 17.89 | - | - | - | 1446.15 | 0.03 |
| Safflower | 335.65 | 0.11 | 0.00 | 0.00 | 335.65 | 0.11 | 2,718.28 | 0.05 | 8.10 | - | - | - | 2718.28 | 0.05 |
| Sesame | 117584.02 | 39.19 | 148.25 | 15.53 | 117,732.27 | 39.12 | 1,187,650.95 | 25.25 | 11.80 | 1,310.00 | 5.91 | 8.84 | 1388960.95 | 25.17 |
| Rape seed | 1988.96 | 0.66 | 0.00 | 0.00 | 1,988.96 | 0.66 | 20,981.57 | 0.38 | 10.55 | - | - | - | 20981.57 | 0.38 |
| Vegetables | 10840.11 | 100 | 398.31 | 100 | 11,238.42 | 100 | 1,462,498.27 | 100 | | 38,015.46 | 100 | | 1500513.73 | 100 |
| Lettuce | 188.32 | 1.74 | 11.75 | 2.95 | 200.07 | 1.78 | 20,364.69 | 1.39 | 108.14 | 809.00 | 2.13 | 68.85 | 21173.69 | 1.41 |
| Head cabbage | 354.25 | 3.27 | 33.82 | 8.49 | 388.07 | 3.45 | 54,901.38 | 3.75 | 154.98 | 4,429.42 | 11.65 | 130.97 | 59330.80 | 3.95 |
| Ethiopian cabbage | 29.19 | 0.27 | 58.71 | 14.74 | 87.90 | 0.78 | 5,571.72 | 0.38 | 190.88 | 8,030.15 | 21.12 | 136.78 | 13601.87 | 0.91 |
| Tomatoes | 4590.21 | 42.34 | 140.89 | 35.37 | 4,731.10 | 42.10 | 1,004,988.37 | 68.72 | 218.94 | 17,592.63 | 46.28 | 124.87 | 1022581.00 | 68.15 |
| Green peppers | 284.03 | 2.62 | 86.59 | 21.74 | 370.62 | 3.30 | 53,917.59 | 3.69 | 189.83 | 4,927.45 | 12.96 | 56.91 | 58845.04 | 3.92 |
| Red peppers | 5376.86 | 49.60 | 63.80 | 16.02 | 5,440.66 | 48.41 | 319,164.93 | 21.82 | 59.36 | 2,013.81 | 5.30 | 31.56 | 321178.74 | 21.40 |
| Swiss chard | 17.25 | 0.22 | 2.75 | 0.69 | 20.00 | 0.18 | 3,589.59 | 0.23 | 208.09 | 213.00 | 0.56 | 77.45 | 3802.59 | 0.25 |
| Root crops | 7834.28 | 100 | 201.45 | 100 | 8,035.73 | 100 | 1,540,561.81 | 100 | | 26,781.82 | 100 | | 1567343.63 | 100 |
| Beetroot | 106.6 | 1.36 | 2.85 | 1.415 | 109.45 | 1.36 | 34,411.65 | 2.23 | 322.81 | 650.90 | 2.43 | 228.39 | 35062.55 | 2.24 |
| Carrot | 136.34 | 1.74 | 30.74 | 15.26 | 167.08 | 2.08 | 24,449.45 | 1.59 | 179.33 | 2,066.00 | 7.71 | 67.21 | 26515.45 | 1.69 |
| Onion | 7444.86 | 95.03 | 156.61 | 77.74 | 7,601.47 | 94.60 | 1,467,992.03 | 95.29 | 197.18 | 22,746.42 | 84.93 | 145.24 | 1490738.45 | 95.11 |
| Potatoes | 78.85 | 1.01 | 8.44 | 4.19 | 87.29 | 1.09 | 5,979.06 | 0.39 | 75.83 | 1,072.00 | 4.00 | 127.01 | 7051.06 | 0.45 |
| Garlic | 64.93 | 0.83 | 0.50 | 0.248 | 65.43 | 0.81 | 7,535.36 | 0.49 | 116.05 | 15.00 | 0.06 | 30.00 | 7550.36 | 0.48 |
| Sweet potatoes | 2.7 | 0.03 | 2.31 | 1.147 | 5.01 | 0.06 | 194.27 | 0.01 | 71.95 | 231.50 | 0.86 | 100.22 | 425.77 | 0.03 |
| Other Temp. crops | 6521.82 | 100 | 57.83 | 28.71 | 6,579.65 | 100 | 987,510.71 | 100 | | 1,326.90 | 100 | | 988837.61 | 100 |

The estimates of cropland area and production of permanent crops are only for Meher Season

| Crop Types | Area in Ha | % | prod. in Qts % | Yield (Qts/ha) |
|------------------------------|-----------------|---------------|------------------|----------------|
| Permanent crops | 135306.3 | 100 | 30578492 | 100 |
| Fruit crops | 5339.25 | 3.95 | 1115782.9 | 3.649 |
| Avocados | 134.7 | 0.10 | 13606.684 | 0.044 |
| Bananas | 1630.32 | 1.20 | 357064.39 | 1.168 |
| Guavas | 369.55 | 0.27 | 36682.616 | 0.12 |
| Lemons | 108.35 | 0.08 | 5664.052 | 0.019 |
| Mangoes | 1011.12 | 0.75 | 144055.83 | 0.471 |
| Oranges | 793.94 | 0.59 | 298650.57 | 0.977 |
| Papayas | 1139.88 | 0.84 | 269529.03 | 0.881 |
| Pineapples | 151.39 | 0.11 | 13571.66 | 0.044 |
| Cash Crops | 58965.07 | 43.58 | 740063.14 | 2.42 |
| Chat | 455.58 | 0.34 | 6485.8468 | 0.021 |
| Coffee | 54339.6 | 40.16 | 644312.48 | 2.107 |
| Tea | 4169.89 | 3.08 | 89264.81 | 0.292 |
| Hops | - | - | - | - |
| Sugar cane | 23465.66 | 17.34 | 27822493 | 90.99 |
| Cotton | 42056.05 | 31.08 | 823412.27 | 2.693 |
| Other Permanent crops | 5480.27 | 4.0503 | 76740.36 | 0.251 |

Table 2 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2007/08 (2000 E.C.), Meher (Main) Season
Ethiopia

| Crop Types | Total Grain Crops | | | | Crop Productivity/ Yield (QTS/Ha) |
|------------------------------|-------------------|--------------|---------------------|--------------|---|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 300,001.05 | 100 | 5,496,032.54 | 100 | |
| Cereals | 158,038.16 | 53 | 3,809,735.85 | 69 | |
| <i>Teff</i> | 4,576.89 | 1.53 | 76,132.14 | 1.39 | 16.63 |
| <i>Barley</i> | 613.67 | 0.20 | 11,497.69 | 0.21 | 18.74 |
| <i>Wheat</i> | 33,494.06 | 11.16 | 661,412.33 | 12.03 | 19.75 |
| <i>Maize</i> | 53,780.22 | 17.93 | 1,909,890.78 | 34.75 | 35.51 |
| <i>Sorghum</i> | 65,508.86 | 21.84 | 1,149,940.69 | 20.92 | 17.55 |
| <i>Finger millet</i> | 58.02 | 0.02 | 775.73 | 0.01 | 13.37 |
| <i>Oats / 'Aja'</i> | - | - | - | - | - |
| <i>Rice</i> | 6.44 | 0.00 | 86.49 | 0.00 | 13.43 |
| Pulses | 20,258.97 | 6.75 | 262,098.31 | 4.77 | |
| <i>Faba beans</i> | 429.83 | 0.14 | 5,955.19 | 0.11 | 13.85 |
| <i>Field peas</i> | 10.21 | 0.00 | 104.96 | - | 10.28 |
| <i>Haricot beans</i> | 6,298.68 | 2.10 | 68,257.01 | - | 10.84 |
| <i>Chick-peas</i> | 3,752.65 | 1.25 | 44,847.18 | 0.82 | 11.95 |
| <i>Lentils</i> | 59.50 | 0.02 | 605.41 | 0.01 | 10.17 |
| <i>Grass peas</i> | 16.45 | 0.01 | 199.64 | 0.00 | 12.14 |
| <i>Soya beans</i> | 9,648.60 | 3.22 | 141,702.40 | 2.58 | 14.69 |
| <i>Fenugreek</i> | 43.05 | 0.01 | 426.52 | 0.01 | 9.91 |
| Oilseeds | 121,703.92 | 40.57 | 1,424,198.38 | 25.91 | |
| <i>Neug</i> | 1,410.70 | 0.47 | 8,083.61 | 0.15 | 5.73 |
| <i>Linseed</i> | 303.75 | 0.10 | 3,317.83 | 0.06 | 10.92 |
| <i>Groundnuts</i> | 80.84 | 0.03 | 1,446.15 | 0.03 | 17.89 |
| <i>Safflower</i> | 335.65 | 0.11 | 2,718.28 | 0.05 | 8.10 |
| <i>Sesame</i> | 117,584.02 | 39.19 | 1,387,650.95 | 25.25 | 11.80 |
| <i>Rape seed</i> | 1,988.96 | 0.66 | 20,981.57 | 0.38 | 10.55 |
| Vegetables | 10,840.11 | 100 | 1,462,498.27 | 100 | |
| <i>Lettuce</i> | 188.32 | 1.74 | 20,364.69 | 1.39 | 108.14 |
| <i>Head cabbage</i> | 354.25 | 3.27 | 54,901.38 | 3.75 | 154.98 |
| <i>Ethiopian cabbage</i> | 29.19 | 0.27 | 5,571.72 | 0.38 | 190.88 |
| <i>Tomatoes</i> | 4,590.21 | 42.34 | 1,004,988.37 | 68.72 | 218.94 |
| <i>Green peppers</i> | 284.03 | 2.62 | 53,917.59 | 3.69 | 189.83 |
| <i>Red peppers</i> | 5,376.86 | 49.60 | 319,164.93 | 21.82 | 59.36 |
| <i>Swiss chard</i> | 17.25 | 0.22 | 3,589.59 | 0.23 | 208.09 |
| Root crops | 7,834.28 | 100 | 1,540,561.81 | 100 | |
| <i>Beetroot</i> | 106.60 | 1.36 | 34,411.65 | 2.23 | 322.81 |
| <i>Carrot</i> | 136.34 | 1.74 | 24,449.45 | 1.59 | 179.33 |
| <i>Onion</i> | 7,444.86 | 95.03 | 1,467,992.03 | 95.29 | 197.18 |
| <i>Potatoes</i> | 78.85 | 1.01 | 5,979.06 | 0.39 | 75.83 |
| <i>Garlic</i> | 64.93 | 0.83 | 7,535.36 | 0.49 | 116.05 |
| <i>Sweet potatoes</i> | 2.70 | 0.03 | 194.27 | 0.01 | 71.95 |
| Other Temporary crops | 6,521.82 | 100 | 987,510.71 | 100 | |
| Permanent crops | 135306.30 | 100 | 30578491.65 | 100 | |
| Fruit crops | 5,339.25 | 3.95 | 1,115,782.91 | 3.65 | |
| <i>Avocados</i> | 134.70 | 0.10 | 13,606.68 | 0.04 | 101.01 |
| <i>Bananas</i> | 1,630.32 | 1.20 | 357,064.39 | 1.17 | 219.01 |
| <i>Guavas</i> | 369.55 | 0.27 | 36,682.62 | 0.12 | 99.26 |
| <i>Lemons</i> | 108.35 | 0.08 | 5,664.05 | 0.02 | 52.28 |
| <i>Mangoes</i> | 1,011.12 | 0.75 | 144,055.83 | 0.47 | 142.47 |
| <i>Oranges</i> | 793.94 | 0.59 | 298,650.57 | 0.98 | 376.16 |
| <i>Papayas</i> | 1,139.88 | 0.84 | 269,529.03 | 0.88 | 236.45 |
| <i>Pineapples</i> | 151.39 | 0.11 | 13,571.66 | 0.04 | 89.65 |
| Cash Crops | 58,965.07 | 43.58 | 740,063.14 | 2.42 | |
| <i>Chat</i> | 455.58 | 0.34 | 6,485.85 | 0.02 | 14.24 |
| <i>Coffee</i> | 54,339.60 | 40.16 | 644,312.48 | 2.11 | 11.86 |
| <i>Tea</i> | 4,169.89 | 3.08 | 89,264.81 | 0.29 | 21.41 |
| <i>Hops</i> | - | - | - | - | - |
| <i>Sugar cane</i> | 23,465.66 | 17.34 | 27,822,492.97 | 90.99 | 1185.67 |
| <i>Cotton</i> | 42,056.05 | 31.08 | 823,412.27 | 2.69 | 19.58 |
| Other Permanent crops | 5,480.27 | 4.05 | 76,740.36 | 0.25 | |

Table 2.1 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2007/08 (2000 E.C.), Meher (Main) Season

Tigray Region

| Crop Types | Total Grain Crops | | | | |
|------------------------------|-------------------|--------------|-------------------|--------------|--------------------------------------|
| | Cropland area in | | Production in | | Crop Productivity /Yield (QTS/Ha) |
| | Hectare | % | Quintals | % | |
| Grain | 100116.68 | 100 | 1084700.09 | 100 | |
| Cereals | 36759.63 | 37 | 583975.54 | 54 | |
| <i>Teff</i> | 214.40 | 0.21 | 2003.03 | 0.18 | 9.34 |
| <i>Barley</i> | 1.00 | 0.00 | 13.63 | 0.00 | 13.63 |
| <i>Wheat</i> | 47.80 | 0.05 | 679.24 | 0.06 | 14.21 |
| <i>Maize</i> | 48.34 | 0.05 | 1019.49 | 0.09 | 21.09 |
| <i>Sorghum</i> | 36448.09 | 36.41 | 579160.15 | 53.39 | 15.89 |
| <i>Finger millet</i> | | | | | |
| <i>Oats / 'Aja'</i> | | | | | |
| <i>Rice</i> | | | | | |
| Pulses | 54.20 | 0.05 | 771.40 | 0.07 | |
| <i>Faba beans</i> | 15.00 | 0.01 | 258.00 | 0.02 | 17.20 |
| <i>Field peas</i> | | | | | |
| <i>Haricot beans</i> | | | | | |
| <i>Chick-peas</i> | 6.00 | 0.01 | 74.46 | 0.01 | 12.41 |
| <i>Lentils</i> | 22.00 | 0.02 | 307.34 | 0.03 | 13.97 |
| <i>Grass peas</i> | 11.20 | 0.01 | 131.60 | 0.01 | 11.75 |
| <i>Soya beans</i> | | | | | |
| <i>Fenugreek</i> | | | | | |
| Oilseeds | 63302.85 | 63.23 | 499953.14 | 46.09 | |
| <i>Neug</i> | | | | | |
| <i>Linseed</i> | | | | | |
| <i>Groundnuts</i> | 41.80 | 0.04 | 823.46 | 0.08 | 19.70 |
| <i>Safflower</i> | | | | | |
| <i>Sesame</i> | 63261.05 | 21.09 | 499129.68 | 166.38 | 7.89 |
| <i>Rape seed</i> | | | | | |
| Vegetables | 298.33 | 100 | 44959.60 | 100 | |
| <i>Lettuce</i> | 4.42 | 1.48 | 959.98 | 2.14 | 217.19 |
| <i>Head cabbage</i> | 6.34 | 2.13 | 1018.40 | 2.27 | 160.63 |
| <i>Ethiopian cabbage</i> | | | | | |
| <i>Tomatoes</i> | 140.45 | 47.08 | 25870.89 | 57.54 | 184.20 |
| <i>Green peppers</i> | 46.14 | 15.47 | 5443.14 | 12.11 | 117.97 |
| <i>Red peppers</i> | 86.87 | 29.12 | 8660.07 | 19.26 | 99.69 |
| <i>Swiss chard</i> | 14.11 | 4.73 | 3007.12 | 6.69 | 213.12 |
| Root crops | 100.35 | 100 | 12776.45 | 100 | |
| <i>Beetroot</i> | | | | | |
| <i>Carrot</i> | | | | | |
| <i>Onion</i> | 97.86 | 97.52 | 12438.01 | 97.35 | 127.10 |
| <i>Potatoes</i> | | | | | |
| <i>Garlic</i> | 2.49 | 2.48 | 338.44 | 2.65 | 135.92 |
| <i>Sweet potatoes</i> | | | | | |
| Other Temporary crops | 285.00 | 100 | 1418.00 | 100 | |
| Permanent crops | 1772.86 | 100 | 32711.94 | 100 | |
| Fruit crops | 73.41 | 4.14 | 13782.24 | 42.13 | |
| <i>Avocados</i> | | | | | |
| <i>Bananas</i> | 7.50 | 0.42 | 2925.00 | 8.94 | 390.00 |
| <i>Guavas</i> | 0.25 | 0.01 | 50.00 | 0.15 | 200.00 |
| <i>Lemons</i> | | | | | |
| <i>Mangoes</i> | | | | | |
| <i>Oranges</i> | 9.00 | 0.51 | 3510.00 | 10.73 | 390.00 |
| <i>Papayas</i> | 56.66 | 3.20 | 7297.24 | 22.31 | 128.79 |
| <i>Pineapples</i> | | | | | |
| Cash Crops | 0.00 | 0.00 | 0.00 | 0.00 | |
| <i>Chat</i> | | | | | |
| <i>Coffee</i> | | | | | |
| <i>Tea</i> | | | | | |
| <i>Hops</i> | | | | | |
| <i>Sugar cane</i> | | | | | |
| <i>Cotton</i> | 1660.80 | 93.68 | 16142.98 | 49.35 | 9.72 |
| Other Permanent crops | 38.65 | 52.65 | 2786.72 | 20.22 | |

Table 2.2 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2007/08 (2000 E.C.), Meher (Main) Season

Afar Region

| Crop Types | Total Grain Crops | | | | Crop Productivity /Yield (QTS/Ha) |
|------------------------------|-------------------|--------|---------------|--------|-----------------------------------|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 1248.96 | 100 | 33610.49 | 100 | |
| Cereals | 1115.66 | 89 | 32097.54 | 95 | |
| Teff | 1115.66 | 89.33 | 10017.54 | 29.80 | 8.98 |
| Barley | | | | | |
| Wheat | | | | | |
| Maize | | | | | |
| Sorghum | | | | | |
| Finger millet | | | | | |
| Oats / 'Aja' | | | | | |
| Rice | | | | | |
| Pulses | 0.00 | 0.00 | 0.00 | 0.00 | |
| Faba beans | | | | | |
| Field peas | | | | | |
| Haricot beans | | | | | |
| Chick-peas | | | | | |
| Lentils | | | | | |
| Grass peas | | | | | |
| Soya beans | | | | | |
| Fenugreek | | | | | |
| Oilseeds | 133.30 | 10.67 | 1512.96 | 4.50 | |
| Neug | | | | | |
| Linseed | | | | | |
| Groundnuts | | | | | |
| Safflower | | | | | |
| Sesame | 133.30 | 0.04 | 1512.96 | 0.50 | 11.35 |
| Rape seed | | | | | |
| Vegetables | 111.60 | 100 | 1938.49 | 100 | |
| Lettuce | | | | | |
| Head cabbage | | | | | |
| Ethiopian cabbage | | | | | |
| Tomatoes | | | | | |
| Green peppers | | | | | |
| Red peppers | 111.60 | 100.00 | 1938.49 | 100.00 | 17.37 |
| Swiss chard | | | | | |
| Root crops | 64.32 | 100 | 1350.72 | 100 | |
| Beetroot | | | | | |
| Carrot | | | | | |
| Onion | 64.32 | 100.00 | 1350.72 | 100.00 | 21.00 |
| Potatoes | | | | | |
| Garlic | | | | | |
| Sweet potatoes | | | | | |
| Other Temporary crops | 930.40 | 3.52 | 6125.98 | 1.12 | |
| Permanent crops | 24491.55 | 100 | 558728.33 | 100 | |
| Fruit crops | 69.19 | 0.28 | 1400.85 | 0.25 | |
| Avocados | | | | | |
| Bananas | | | | | |
| Guavas | | | | | |
| Lemons | | | | | |
| Mangoes | 44.99 | 0.18 | 674.85 | 0.12 | 15.00 |
| Oranges | 24.20 | 0.10 | 726.00 | 0.13 | 30.00 |
| Papayas | | | | | |
| Pineapples | | | | | |
| Cash Crops | 0.00 | 0.00 | 0.00 | 0.00 | |
| Chat | | | | | |
| Coffee | | | | | |
| Tea | | | | | |
| Hops | | | | | |
| Sugar cane | 81.80 | 0.33 | 0.00 | | 0.00 |
| Cotton | 24316.36 | 99.28 | 556601.48 | 99.62 | 22.89 |
| Other Permanent crops | 24.20 | 34.98 | 726.00 | 51.83 | |

Table 2.3 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2007/08 (2000 E.C.), Meher (Main) Season

Amhara Region

| Crop Types | Total Grain Crops | | | | Crop Productivity /Yield (QTS/Ha) |
|------------------------------|-------------------|--------------|-------------------|--------------|-----------------------------------|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 96536.47 | 100 | 2264701.49 | 100 | |
| Cereals | 43976.80 | 46 | 1343780.02 | 59 | |
| <i>Teff</i> | 2043.38 | 2.12 | 24368.28 | 1.08 | 11.93 |
| <i>Barley</i> | 368.56 | 0.38 | 4798.65 | 0.21 | 13.02 |
| <i>Wheat</i> | 1872.66 | 1.94 | 42902.64 | 1.89 | 22.91 |
| <i>Maize</i> | 17134.79 | 17.75 | 829666.53 | 36.63 | 48.42 |
| <i>Sorghum</i> | 22557.41 | 23.37 | 439643.92 | 19.41 | 19.49 |
| <i>Finger millet</i> | | | | | |
| <i>Oats / 'Aja'</i> | | | | | |
| <i>Rice</i> | | | | | |
| Pulses | 7130.90 | 7.39 | 101739.81 | 4.49 | |
| <i>Faba beans</i> | 251.53 | 0.26 | 3327.74 | 0.15 | 13.23 |
| <i>Field peas</i> | | 0.00 | | 0.00 | |
| <i>Haricot beans</i> | 538.60 | 0.56 | 5795.34 | 0.26 | 10.76 |
| <i>Chick-peas</i> | 2648.99 | 2.74 | 32715.03 | 1.44 | 12.35 |
| <i>Lentils</i> | 6.34 | 0.01 | 54.59 | 0.00 | 8.61 |
| <i>Grass peas</i> | | | | | |
| <i>Soya beans</i> | 3655.44 | 3.79 | 59547.12 | 2.63 | 16.29 |
| <i>Fenugreek</i> | 30.00 | 0.03 | 300.00 | 0.01 | 10.00 |
| Oilseeds | 45428.77 | 47.06 | 819181.65 | 36.17 | |
| <i>Neug</i> | 441.83 | 0.46 | 2452.16 | 0.11 | 5.55 |
| <i>Linseed</i> | 141.60 | 0.15 | 1770.00 | 0.08 | 12.50 |
| <i>Groundnuts</i> | 9.00 | 0.01 | 299.16 | 0.01 | 33.24 |
| <i>Safflower</i> | 2.00 | 0.00 | 20.38 | 0.00 | 10.19 |
| <i>Sesame</i> | 44834.34 | 14.94 | 457758.61 | 152.59 | 10.21 |
| <i>Rape seed</i> | | | | | |
| Vegetables | 3862.07 | 100 | 125123.66 | 100 | |
| <i>Lettuce</i> | 17.60 | 0.46 | 251.68 | 0.20 | 14.30 |
| <i>Head cabbage</i> | 0.70 | 0.02 | 160.00 | 0.13 | 228.57 |
| <i>Ethiopian cabbage</i> | | | | | |
| <i>Tomatoes</i> | 7.02 | 0.18 | 1859.25 | 1.49 | 264.85 |
| <i>Green peppers</i> | | 0.00 | | 0.00 | |
| <i>Red peppers</i> | 3836.75 | 99.34 | 122852.74 | 98.19 | 32.02 |
| <i>Swiss chard</i> | | | | | |
| Root crops | 23.03 | 100 | 1560.17 | 100 | |
| <i>Beetroot</i> | 0.10 | 0.43 | 10.00 | 0.64 | 100.00 |
| <i>Carrot</i> | 11.54 | 50.11 | 140.77 | 9.02 | 12.20 |
| <i>Onion</i> | 9.33 | 40.51 | 1190.88 | 76.33 | 127.64 |
| <i>Potatoes</i> | 0.25 | 1.09 | 21.32 | 1.37 | 85.28 |
| <i>Garlic</i> | 1.81 | 7.86 | 197.20 | 12.64 | 108.95 |
| <i>Sweet potatoes</i> | | | | | |
| Other Temporary crops | 81.62 | 0.08 | 692.99 | 100 | |
| Permanent crops | 3091.95 | 100 | 26073.55 | 100 | |
| Fruit crops | 265.45 | 8.59 | 267.45 | 1.03 | |
| <i>Avocados</i> | 1.25 | 0.04 | 84.49 | 0.32 | 67.59 |
| <i>Bananas</i> | 40.46 | 1.31 | 3104.90 | 11.91 | 76.74 |
| <i>Guavas</i> | 0.26 | 0.01 | 5.69 | 0.02 | 21.88 |
| <i>Lemons</i> | | | | | |
| <i>Mangoes</i> | 32.00 | 1.03 | 2493.12 | 9.56 | 77.91 |
| <i>Oranges</i> | 29.41 | 0.95 | 4363.86 | 16.74 | 148.38 |
| <i>Papayas</i> | 162.07 | 5.24 | 13257.33 | 50.85 | 81.80 |
| <i>Pineapples</i> | | | | | |
| Cash Crops | 61.72 | 2.00 | 803.03 | 3.08 | |
| <i>Chat</i> | 3.50 | 0.11 | 91.00 | 0.35 | 26.00 |
| <i>Coffee</i> | 58.22 | 1.88 | 712.03 | 2.73 | 12.23 |
| <i>Tea</i> | | 0.00 | | 0.00 | |
| <i>Hops</i> | | | | | |
| <i>Sugar cane</i> | 9.48 | 0.31 | 7022.03 | 26.93 | 740.72 |
| <i>Cotton</i> | 2740.96 | 88.65 | 17048.77 | 65.39 | 6.22 |
| Other Permanent crops | 14.34 | 0.01 | 932.27 | 0.09 | |

Table 2.4 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2007/08 (2000 E.C.), Meher (Main) Season

Oromia Region

| Crop Types | Total Grain Crops | | | | Crop Productivity /Yield (QTS/Ha) |
|------------------------------|-------------------|--------------|--------------------|-------------|--------------------------------------|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 73464.68 | 100 | 1517573.46 | 100 | |
| Cereals | 59355.03 | 81 | 1360304.31 | 90 | |
| Teff | 834.66 | 1.14 | 9565.20 | 0.63 | 11.46 |
| Barley | 215.73 | 0.29 | 6446.01 | 0.42 | 29.88 |
| Wheat | 30276.05 | 41.21 | 600271.80 | 39.55 | 19.83 |
| Maize | 22086.08 | 30.06 | 625069.04 | 41.19 | 28.30 |
| Sorghum | 5878.05 | 8.00 | 118090.02 | 7.78 | 20.09 |
| Finger millet | 58.02 | 0.08 | 775.73 | 0.05 | 13.37 |
| Oats / 'Aja' | | | | | |
| Rice | 6.44 | 0.01 | 86.49 | 0.01 | 13.43 |
| Pulses | 6181.98 | 8.41 | 82850.84 | 5.46 | |
| Faba beans | 86.56 | 0.12 | 1137.40 | 0.07 | 13.14 |
| Field peas | | 0.00 | | 0.00 | |
| Haricot beans | 1924.20 | 2.62 | 27746.96 | 1.83 | 14.42 |
| Chick-peas | 233.58 | 0.32 | 2665.15 | 0.18 | 11.41 |
| Lentils | 17.68 | 0.02 | 160.71 | 0.01 | 9.09 |
| Grass peas | 5.25 | 0.01 | 68.04 | 0.00 | 12.96 |
| Soya beans | 3907.48 | 5.32 | 50992.61 | 3.36 | 13.05 |
| Fenugreek | 7.23 | 0.01 | 79.96 | 0.01 | 11.06 |
| Oilseeds | 7927.67 | 10.79 | 74418.32 | 4.90 | |
| Neug | 635.37 | 0.86 | 3526.30 | 0.23 | 5.55 |
| Linseed | 134.22 | 0.18 | 1276.43 | 0.08 | 9.51 |
| Groundnuts | 30.04 | 0.04 | 323.53 | 0.02 | 10.77 |
| Safflower | 185.00 | 0.25 | 2070.15 | 0.14 | 11.19 |
| Sesame | 4954.38 | 1.65 | 46241.54 | 15.41 | 9.33 |
| Rape seed | 1988.66 | 2.71 | 20980.36 | 1.38 | 10.55 |
| Vegetables | 5478.07 | 100 | 1204575.83 | 100 | |
| Lettuce | 166.30 | 3.04 | 19153.03 | 1.59 | 115.17 |
| Head cabbage | 203.26 | 3.71 | 20830.04 | 1.73 | 102.48 |
| Ethiopian cabbage | 22.61 | 0.41 | 4897.53 | 0.41 | 216.61 |
| Tomatoes | 4322.16 | 78.90 | 948238.68 | 78.72 | 219.39 |
| Green peppers | 231.26 | 4.22 | 47688.12 | 3.96 | 206.21 |
| Red peppers | 529.56 | 9.67 | 163210.39 | 13.55 | 308.20 |
| Swiss chard | 2.92 | 0.05 | 558.03 | 0.05 | 191.11 |
| Root crops | 7294.86 | 100 | 1463374.07 | 100 | |
| Beetroot | 10.11 | 0.14 | 967.22 | 0.07 | 95.67 |
| Carrot | 122.11 | 1.67 | 24007.01 | 1.64 | 196.60 |
| Onion | 7072.10 | 96.95 | 1429129.97 | 97.66 | 202.08 |
| Potatoes | 27.71 | 0.38 | 2088.50 | 0.14 | 75.37 |
| Garlic | 60.13 | 0.82 | 6987.11 | 0.48 | 116.20 |
| Sweet potatoes | 2.70 | 0.04 | 194.27 | 0.01 | 71.95 |
| Other Temporary crops | 2068.50 | 1.57 | 145055.31 | 1.08 | |
| Permanent crops | 48601.57 | 100 | 28886684.97 | 100 | |
| Fruit crops | 2773.79 | 5.71 | 691061.37 | 2.39 | |
| Avocados | 30.93 | 0.06 | 3732.59 | 0.01 | 120.68 |
| Bananas | 30.21 | 0.06 | 3770.51 | 0.01 | 124.81 |
| Guavas | 361.90 | 0.74 | 36190.00 | 0.13 | 100.00 |
| Lemons | 104.42 | 0.21 | 5273.21 | 0.02 | 50.50 |
| Mangoes | 768.80 | 1.58 | 126936.57 | 0.44 | 165.11 |
| Oranges | 562.83 | 1.16 | 266646.34 | 0.92 | 473.76 |
| Papayas | 910.91 | 1.87 | 247958.81 | 0.86 | 272.21 |
| Pineapples | 3.79 | 0.01 | 553.34 | 0.00 | 146.00 |
| Cash Crops | 20064.39 | 41.28 | 279376.35 | 0.97 | |
| Chat | 24.33 | 0.05 | 418.72 | 0.00 | 17.21 |
| Coffee | 20040.06 | 41.23 | 278957.64 | 0.97 | 13.92 |
| Tea | | 0.00 | | 0.00 | |
| Hops | | | | | |
| Sugar cane | 23374.13 | 48.09 | 27815448.44 | 96.29 | 1190.01 |
| Cotton | 1288.83 | 2.65 | 37260.08 | 0.13 | 28.91 |
| Other Permanent crops | 1100.43 | 0.84 | 63538.73 | 0.48 | |

Table 2.5 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2007/08 (2000 E.C.), Meher (Main) Season

Somali Region

| Crop Types | Total Grain Crops | | | | Crop Productivity /Yield (QTS/Ha) |
|------------------------------|-------------------|--------------|-----------------|--------------|--------------------------------------|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 214.57 | 100 | 3429.67 | 100 | |
| Cereals | 199.07 | 93 | 3256.22 | 95 | |
| <i>Teff</i> | | 0.00 | | 0.00 | |
| <i>Barley</i> | 24.00 | 11.19 | 108.00 | 3.15 | 4.50 |
| <i>Wheat</i> | 43.00 | 20.04 | 235.64 | 6.87 | 5.48 |
| <i>Maize</i> | 121.57 | 56.66 | 2792.46 | 81.42 | 22.97 |
| <i>Sorghum</i> | 10.50 | 4.89 | 120.12 | 3.50 | 11.44 |
| <i>Finger millet</i> | | | | | |
| <i>Oats / 'Aja'</i> | | | | | |
| <i>Rice</i> | | | | | |
| Pulses | 2.50 | 1.17 | 38.45 | 1.12 | |
| <i>Faba beans</i> | 2.50 | 1.17 | 38.45 | 1.12 | 15.38 |
| <i>Field peas</i> | | | | | |
| <i>Haricot beans</i> | | | | | |
| <i>Chick-peas</i> | | | | | |
| <i>Lentils</i> | | | | | |
| <i>Grass peas</i> | | | | | |
| <i>Soya beans</i> | | | | | |
| <i>Fenugreek</i> | | | | | |
| Oilseeds | 13.00 | 6.06 | 135.00 | 3.94 | |
| <i>Neug</i> | | | | | |
| <i>Linseed</i> | | | | | |
| <i>Groundnuts</i> | | | | | |
| <i>Safflower</i> | 1.00 | 0.47 | 15.00 | 0.44 | 15.00 |
| <i>Sesame</i> | 12.00 | 0.00 | 120.00 | 0.04 | 10.00 |
| <i>Rape seed</i> | | | | | |
| Vegetables | 18.75 | 100 | 1450.04 | 100 | |
| <i>Lettuce</i> | | | | | |
| <i>Head cabbage</i> | | | | | |
| <i>Ethiopian cabbage</i> | 1.00 | 5.33 | 150.00 | 10.34 | 150.00 |
| <i>Tomatoes</i> | 11.00 | 58.67 | 651.97 | 44.96 | 59.27 |
| <i>Green peppers</i> | 4.37 | 23.31 | 605.07 | 41.73 | 138.46 |
| <i>Red peppers</i> | 2.38 | 12.69 | 43.00 | 2.97 | 18.07 |
| <i>Swiss chard</i> | | | | | |
| Root crops | 24.13 | 100 | 1697.27 | 100 | |
| <i>Beetroot</i> | 1.00 | 4.14 | 30.11 | 1.77 | 30.11 |
| <i>Carrot</i> | | | | | |
| <i>Onion</i> | 21.38 | 88.60 | 1613.55 | 95.07 | 75.47 |
| <i>Potatoes</i> | 1.25 | 5.18 | 41.00 | 2.42 | 32.80 |
| <i>Garlic</i> | 0.50 | 2.07 | 12.61 | 0.74 | 25.22 |
| <i>Sweet potatoes</i> | | | | | |
| Other Temporary crops | | | | | |
| Permanent crops | 278.29 | 100 | 30748.05 | 100 | |
| Fruit crops | 226.60 | 81.43 | 28818.32 | 93.72 | |
| <i>Avocados</i> | | | | | |
| <i>Bananas</i> | 66.00 | 23.72 | 8614.98 | 28.02 | 130.53 |
| <i>Guavas</i> | 7.10 | 2.55 | 436.22 | 1.42 | 61.44 |
| <i>Lemons</i> | 3.60 | 1.29 | 240.01 | 0.78 | 66.67 |
| <i>Mangoes</i> | 10.75 | 3.86 | 870.11 | 2.83 | 80.94 |
| <i>Oranges</i> | 130.15 | 46.77 | 17889.12 | 58.18 | 137.45 |
| <i>Papayas</i> | 9.00 | 3.23 | 767.88 | 2.50 | 85.32 |
| <i>Pineapples</i> | | | | | |
| Cash Crops | 5.25 | 1.89 | 146.53 | 0.48 | |
| <i>Chat</i> | 5.25 | 1.89 | 146.53 | 0.48 | 27.91 |
| <i>Coffee</i> | | | | | |
| <i>Tea</i> | | | | | |
| <i>Hops</i> | | | | | |
| <i>Sugar cane</i> | 0.25 | 0.09 | 22.50 | 0.07 | 90.00 |
| <i>Cotton</i> | | 0.00 | | 0.00 | |
| Other Permanent crops | 46.19 | 16.60 | 1760.70 | 5.73 | |

Table 2.6 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2007/08 (2000 E.C.), Meher (Main) Season
Benshangul Gumuz Region

| Crop Types | Total Grain Crops | | | | Crop Productivity /Yield (QTS/Ha) |
|------------------------------|-------------------|--------------|------------------|--------------|--------------------------------------|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 8440.38 | 100 | 148384.51 | 100 | |
| Cereals | 2811.82 | 33 | 94228.69 | 64 | |
| <i>Teff</i> | 5.00 | 0.06 | 54.35 | 0.04 | 10.87 |
| <i>Barley</i> | | | | | |
| <i>Wheat</i> | | | | | |
| <i>Maize</i> | 2489.82 | 29.50 | 86179.60 | 58.08 | 34.61 |
| <i>Sorghum</i> | 317.00 | 3.76 | 7994.74 | 5.39 | 25.22 |
| <i>Finger millet</i> | | | | | |
| <i>Oats / 'Aja'</i> | | | | | |
| <i>Rice</i> | | | | | |
| Pulses | 1895.53 | 22.46 | 30647.69 | 20.65 | |
| <i>Faba beans</i> | 69.23 | 0.82 | 1134.68 | 0.76 | 16.39 |
| <i>Field peas</i> | | | | | |
| <i>Haricot beans</i> | | | | | |
| <i>Chick-peas</i> | | | | | |
| <i>Lentils</i> | | | | | |
| <i>Grass peas</i> | | | | | |
| <i>Soya beans</i> | 1826.30 | 21.64 | 29513.01 | 19.89 | 16.16 |
| <i>Fenugreek</i> | | 0.00 | | 0.00 | |
| Oilseeds | 3733.03 | 44.23 | 23508.13 | 15.84 | |
| <i>Neug</i> | 215.50 | 2.55 | 1264.99 | 0.85 | 5.87 |
| <i>Linseed</i> | 3.00 | 0.04 | 31.32 | 0.02 | 10.44 |
| <i>Groundnuts</i> | | | | | |
| <i>Safflower</i> | | | | | |
| <i>Sesame</i> | 3514.53 | 1.17 | 22211.83 | 7.40 | 6.32 |
| <i>Rape seed</i> | | | | | |
| Vegetables | 101.14 | 100 | 6111.54 | 100 | |
| <i>Lettuce</i> | | | | | |
| <i>Head cabbage</i> | | | | | |
| <i>Ethiopian cabbage</i> | | | | | |
| <i>Tomatoes</i> | 1.56 | 1.54 | 218.40 | 3.57 | 140.00 |
| <i>Green peppers</i> | | 0.00 | | 0.00 | |
| <i>Red peppers</i> | 99.58 | 98.46 | 5893.14 | 96.43 | 59.18 |
| <i>Swiss chard</i> | | | | | |
| Root crops | 0.78 | 100 | 124.80 | 100 | |
| <i>Beetroot</i> | | | | | |
| <i>Carrot</i> | | | | | |
| <i>Onion</i> | 0.78 | 100.00 | 124.80 | 100.00 | 160.00 |
| <i>Potatoes</i> | | | | | |
| <i>Garlic</i> | | | | | |
| <i>Sweet potatoes</i> | | | | | |
| Other Temporary crops | | | | | |
| Permanent crops | 6.00 | 100 | 215.36 | 100 | |
| Fruit crops | 2.00 | 33.33 | 200.00 | 92.87 | |
| <i>Avocados</i> | 2.00 | 33.33 | 200.00 | 92.87 | 100.00 |
| <i>Bananas</i> | | | | | |
| <i>Guavas</i> | | | | | |
| <i>Lemons</i> | | | | | |
| <i>Mangoes</i> | | | | | |
| <i>Oranges</i> | | | | | |
| <i>Papayas</i> | | | | | |
| <i>Pineapples</i> | | | | | |
| Cash Crops | 4.00 | 66.67 | 15.36 | 7.13 | |
| <i>Chat</i> | | 0.00 | | 0.00 | |
| <i>Coffee</i> | 4.00 | 66.67 | 15.36 | 7.13 | 3.84 |
| <i>Tea</i> | | | | | |
| <i>Hops</i> | | | | | |
| <i>Sugar cane</i> | | | | | |
| <i>Cotton</i> | | | | | |
| Other Permanent crops | 0.00 | | 0.00 | | |

Table 2.7 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2007/08 (2000 E.C.), Meher (Main) Season

SNNP Region

| Crop Types | Total Grain Crops | | | | Crop Productivity /Yield (QTS/Ha) |
|------------------------------|-------------------|--------------|------------------|--------------|--------------------------------------|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 19886.31 | 100 | 441758.87 | 100 | |
| Cereals | 13727.15 | 69 | 390219.58 | 88 | |
| <i>Teff</i> | 363.79 | 1.83 | 3043.74 | 0.69 | 8.37 |
| <i>Barley</i> | 4.38 | 0.02 | 131.40 | 0.03 | 30.00 |
| <i>Wheat</i> | 1254.55 | 6.31 | 17323.01 | 3.92 | 13.81 |
| <i>Maize</i> | 11806.62 | 59.37 | 363289.70 | 82.24 | 30.77 |
| <i>Sorghum</i> | 297.81 | 1.50 | 4931.73 | 1.12 | 16.56 |
| <i>Finger millet</i> | | | | | |
| <i>Oats / 'Aja'</i> | | | | | |
| <i>Rice</i> | | | | | |
| Pulses | 4993.86 | 25.11 | 46050.12 | 10.42 | |
| <i>Faba beans</i> | 5.01 | 0.03 | 58.92 | 0.01 | 11.76 |
| <i>Field peas</i> | 10.21 | 0.05 | 104.96 | 0.02 | 10.28 |
| <i>Haricot beans</i> | 3835.88 | 19.29 | 34714.71 | 7.86 | 9.05 |
| <i>Chick-peas</i> | 864.08 | 4.35 | 9392.55 | 2.13 | 10.87 |
| <i>Lentils</i> | 13.48 | 0.07 | 82.77 | 0.02 | 6.14 |
| <i>Grass peas</i> | | | | | |
| <i>Soya beans</i> | 259.38 | 1.30 | 1649.66 | 0.37 | 6.36 |
| <i>Fenugreek</i> | 5.82 | 0.03 | 46.56 | 0.01 | 8.00 |
| Oilseeds | 1165.30 | 5.86 | 5489.17 | 1.24 | |
| <i>Neug</i> | 118.00 | 0.59 | 840.16 | 0.19 | 7.12 |
| <i>Linseed</i> | 24.93 | 0.13 | 240.08 | 0.05 | 9.63 |
| <i>Groundnuts</i> | | | | | |
| <i>Safflower</i> | 147.65 | 0.74 | 612.75 | 0.14 | 4.15 |
| <i>Sesame</i> | 874.42 | 0.29 | 3794.98 | 1.26 | 4.34 |
| <i>Rape seed</i> | 0.30 | 0.00 | 1.21 | 0.00 | 4.02 |
| Vegetables | 968.86 | 100 | 78248.26 | 100 | |
| <i>Lettuce</i> | | | | | |
| <i>Head cabbage</i> | 143.70 | 14.83 | 32869.94 | 42.01 | 228.74 |
| <i>Ethiopian cabbage</i> | 5.58 | 0.58 | 524.19 | 0.67 | 93.94 |
| <i>Tomatoes</i> | 107.46 | 11.09 | 28110.46 | 35.92 | 261.59 |
| <i>Green peppers</i> | 2.00 | 0.21 | 176.58 | 0.23 | 88.29 |
| <i>Red peppers</i> | 710.12 | 73.29 | 16567.10 | 21.17 | 23.33 |
| <i>Swiss chard</i> | | | | | |
| Root crops | 326.02 | 100 | 59649.20 | 100 | |
| <i>Beetroot</i> | 95.19 | 29.20 | 33399.32 | 55.99 | 350.87 |
| <i>Carrot</i> | 2.44 | 0.75 | 281.67 | 0.47 | 115.44 |
| <i>Onion</i> | 178.75 | 54.83 | 22139.98 | 37.12 | 123.86 |
| <i>Potatoes</i> | 49.64 | 15.23 | 3828.24 | 6.42 | 77.12 |
| <i>Garlic</i> | | | | | |
| <i>Sweet potatoes</i> | | | | | |
| Other Temporary crops | 3155.72 | 4.56 | 834165.00 | 46.42 | |
| Permanent crops | 44546.14 | 100 | 839225.47 | 100 | |
| Fruit crops | 1915.95 | 4.30 | 378734.09 | 45.13 | |
| <i>Avocados</i> | 100.52 | 0.23 | 9589.61 | 1.14 | 95.40 |
| <i>Bananas</i> | 1486.15 | 3.34 | 338649.00 | 40.35 | 227.87 |
| <i>Guavas</i> | 0.04 | 0.00 | 0.70 | 0.00 | 17.57 |
| <i>Lemons</i> | | | | | |
| <i>Mangoes</i> | 148.41 | 0.33 | 12861.21 | 1.53 | 86.66 |
| <i>Oranges</i> | 32.60 | 0.07 | 4506.62 | 0.54 | 138.24 |
| <i>Papayas</i> | 0.63 | 0.00 | 108.62 | 0.01 | 172.42 |
| <i>Pineapples</i> | 147.60 | 0.33 | 13018.32 | 1.55 | 88.20 |
| Cash Crops | 38407.21 | 86.22 | 453892.27 | 54.08 | |
| <i>Chat</i> | | 0.00 | | 0.00 | |
| <i>Coffee</i> | 34237.32 | 76.86 | 364627.46 | 43.45 | 10.65 |
| <i>Tea</i> | 4169.89 | 9.36 | 89264.81 | 10.64 | 21.41 |
| <i>Hops</i> | | | | | |
| <i>Sugar cane</i> | | | | | |
| <i>Cotton</i> | 3031.62 | 6.81 | 17903.04 | 2.13 | 5.91 |
| Other Permanent crops | 4222.98 | 6.10 | 6599.11 | 0.37 | |

Table 2.8 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2007/08 (2000 E.C.), Meher (Main) Season
Gambela Region

| Crop Types | Total Grain Crops | | | | Crop Productivity /Yield (QTS/Ha) |
|------------------------------|-------------------|--------|---------------|--------|-----------------------------------|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 93.00 | 100 | 1873.95 | 100 | |
| Cereals | 93.00 | 100 | 1873.95 | 100 | |
| Teff | | | | | |
| Barley | | | | | |
| Wheat | | | | | |
| Maize | 93.00 | 100.00 | 1873.95 | 100.00 | 20.15 |
| Sorghum | | | | | |
| Finger millet | | | | | |
| Oats / 'Aja' | | | | | |
| Rice | | | | | |
| Pulses | 0.00 | 0.00 | 0.00 | 0.00 | |
| Faba beans | | | | | |
| Field peas | | | | | |
| Haricot beans | | | | | |
| Chick-peas | | | | | |
| Lentils | | | | | |
| Grass peas | | | | | |
| Soya beans | | | | | |
| Fenugreek | | | | | |
| Oilseeds | 0.00 | 0.00 | 0.00 | 0.00 | |
| Neug | | | | | |
| Linseed | | | | | |
| Groundnuts | | | | | |
| Safflower | | | | | |
| Sesame | | | | | |
| Rape seed | | | | | |
| Vegetables | 0.00 | | 0.00 | | |
| Lettuce | | | | | |
| Head cabbage | | | | | |
| Ethiopian cabbage | | | | | |
| Tomatoes | | | | | |
| Green peppers | | | | | |
| Red peppers | | | | | |
| Swiss chard | | | | | |
| Root crops | 0.00 | | 0.00 | | |
| Beetroot | | | | | |
| Carrot | | | | | |
| Onion | | | | | |
| Potatoes | | | | | |
| Garlic | | | | | |
| Sweet potatoes | | | | | |
| Other Temporary crops | | | | | |
| Permanent crops | 9471.48 | 100 | 184570.53 | 100 | |
| Fruit crops | 0.00 | 0.00 | 0.00 | 0.00 | |
| Avocados | | | | | |
| Bananas | | | | | |
| Guavas | | | | | |
| Lemons | | | | | |
| Mangoes | | | | | |
| Oranges | | | | | |
| Papayas | | | | | |
| Pineapples | | | | | |
| Cash Crops | 422.00 | 4.46 | 5823.60 | 3.16 | |
| Chat | 422.00 | 4.46 | 5823.60 | 3.16 | 13.80 |
| Coffee | | | | | |
| Tea | | | | | |
| Hops | | | | | |
| Sugar cane | | | | | |
| Cotton | 9017.48 | 95.21 | 178455.93 | 96.69 | 19.79 |
| Other Permanent crops | 32.00 | 0.34 | 291.00 | 0.16 | |

Table 2.9 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2007/08 (2000 E.C.), Meher (Main) Season

Harari Region

| Crop Types | Total Grain Crops | | | | Crop Productivity /Yield (QTS/Ha) |
|------------------------------|-------------------|--------|---------------|--------|--------------------------------------|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 0.00 | | 0.00 | | |
| Cereals | 0.00 | | 0.00 | | |
| Teff | | | | | |
| Barley | | | | | |
| Wheat | | | | | |
| Maize | | | | | |
| Sorghum | | | | | |
| Finger millet | | | | | |
| Oats / 'Aja' | | | | | |
| Rice | | | | | |
| Pulses | 0.00 | | 0.00 | | |
| Faba beans | | | | | |
| Field peas | | | | | |
| Haricot beans | | | | | |
| Chick-peas | | | | | |
| Lentils | | | | | |
| Grass peas | | | | | |
| Soya beans | | | | | |
| Fenugreek | 0.00 | | 0.00 | | |
| Oilseeds | | | | | |
| Neug | | | | | |
| Linseed | | | | | |
| Groundnuts | | | | | |
| Safflower | | | | | |
| Sesame | | | | | |
| Rape seed | | | | | |
| Vegetables | 0.25 | 100 | 23.00 | 100 | |
| Lettuce | | 0.00 | | | |
| Head cabbage | 0.25 | 100.00 | 23.00 | 100.00 | 92.00 |
| Ethiopian cabbage | | 0.00 | | | |
| Tomatoes | | 0.00 | | | |
| Green peppers | | 0.00 | | | |
| Red peppers | | 0.00 | | | |
| Swiss chard | | 0.00 | | | |
| Root crops | 0.45 | 100 | 25.00 | 100 | |
| Beetroot | 0.20 | 44.44 | 5.00 | 20.00 | 25.00 |
| Carrot | 0.25 | 55.56 | 20.00 | 80.00 | 80.00 |
| Onion | | 0.00 | | | |
| Potatoes | | 0.00 | | | |
| Garlic | | 0.00 | | | |
| Sweet potatoes | | 0.00 | | | |
| Other Temporary crops | 0.35 | | 32.00 | | |
| Permanent crops | 7.10 | 100 | 242.98 | 100 | |
| Fruit crops | 6.25 | 88.03 | 204.98 | 84.36 | |
| Avocados | | 0.00 | | | |
| Bananas | | 0.00 | | | |
| Guavas | | 0.00 | | | |
| Lemons | | 0.00 | | | |
| Mangoes | 6.00 | 84.51 | 199.98 | 82.30 | 33.33 |
| Oranges | | 0.00 | | | |
| Papayas | 0.25 | 3.52 | 5.00 | 2.06 | 20.00 |
| Pineapples | | 0.00 | | 0.00 | |
| Cash Crops | 0.50 | 7.04 | 6.00 | 2.47 | |
| Chat | 0.50 | 7.04 | 6.00 | 2.47 | 12.00 |
| Coffee | | 0.00 | | | |
| Tea | | 0.00 | | | |
| Hops | | | | | |
| Sugar cane | | 0.00 | | | |
| Cotton | | 0.00 | | | |
| Other Permanent crops | 0.35 | 4.93 | 32.00 | 13.17 | |

Table 2.10 Estimates of Cropland Area and Production of Grain Crops for Commercial Farms, 2007/08 (2000 E.C.), Meher (Main) Season
Dire Dawa Administration

| Crop Types | Total Grain Crops | | | | Crop Productivity /Yield (QTS/Ha) |
|------------------------------|-------------------|--------|---------------|--------|--------------------------------------|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 0.00 | | 0.00 | | |
| Cereals | 0.00 | | 0.00 | | |
| Teff | | | | | |
| Barley | | | | | |
| Wheat | | | | | |
| Maize | | | | | |
| Sorghum | | | | | |
| Finger millet | | | | | |
| Oats / 'Aja' | | | | | |
| Rice | | | | | |
| Pulses | 0.00 | | 0.00 | | |
| Faba beans | | | | | |
| Field peas | | | | | |
| Haricot beans | | | | | |
| Chick-peas | | | | | |
| Lentils | | | | | |
| Grass peas | | | | | |
| Soya beans | | | | | |
| Fenugreek | 0.00 | | 0.00 | | |
| Oilseeds | | | | | |
| Neug | | | | | |
| Linseed | | | | | |
| Groundnuts | | | | | |
| Safflower | | | | | |
| Sesame | | | | | |
| Rape seed | | | | | |
| Vegetables | 1.04 | 100 | 67.84 | 100 | |
| Lettuce | | 0.00 | | | |
| Head cabbage | | 0.00 | | | |
| Ethiopian cabbage | | 0.00 | | | |
| Tomatoes | 0.56 | 53.85 | 38.72 | 57.07 | 69.14 |
| Green peppers | 0.26 | 25.00 | 4.68 | 6.90 | 18.00 |
| Red peppers | | 0.00 | | | |
| Swiss chard | 0.22 | 21.15 | 24.44 | 36.03 | 111.09 |
| Root crops | 0.34 | 100 | 4.13 | 100 | |
| Beetroot | | 0.00 | | | |
| Carrot | | 0.00 | | | |
| Onion | 0.34 | 100.00 | 4.13 | 100.00 | 12.15 |
| Potatoes | | 0.00 | | | |
| Garlic | | 0.00 | | | |
| Sweet potatoes | | 0.00 | | | |
| Other Temporary crops | 0.23 | | 21.43 | | |
| Permanent crops | 7.74 | 100 | 1387.44 | 100 | |
| Fruit crops | 6.61 | 85.40 | 1313.61 | 94.68 | |
| Avocados | | 0.00 | | | |
| Bananas | | 0.00 | | | |
| Guavas | | 0.00 | | | |
| Lemons | 0.33 | 4.26 | 150.83 | 10.87 | 457.06 |
| Mangoes | 0.17 | 2.20 | 20.00 | 1.44 | 117.65 |
| Oranges | 5.75 | 74.29 | 1008.63 | 72.70 | 175.41 |
| Papayas | 0.36 | 4.65 | 134.15 | 9.67 | 372.64 |
| Pineapples | | 0.00 | | | |
| Cash Crops | 0.00 | 0.00 | | 0.00 | |
| Chat | | 0.00 | | | |
| Coffee | | 0.00 | | | |
| Tea | | 0.00 | | | |
| Hops | | | | | |
| Sugar cane | | 0.00 | | | |
| Cotton | | 0.00 | | | |
| Other Permanent crops | 1.13 | 14.60 | 73.83 | 5.32 | |

Table 3 Estimates of Cropland Area and Production of Major Crops For Commercial Farms, 2007/08 (2000 E.C.), Belg Season

Ethiopia

| <i>Crop Types</i> | Total Grain Crops | | | | Crop Productivity/ Yield (QTS/Ha) |
|------------------------------|--------------------------|--------------|----------------------|---------------|--|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 954.89 | 100 | 22,152.96 | 100.00 | |
| Cereals | 792.25 | 82.97 | 20,705.06 | 93.46 | |
| <i>Teff</i> | 52.00 | 5.45 | 163.00 | 0.74 | 3.13 |
| <i>Barley</i> | 0.50 | 0.05 | 4.00 | 0.02 | 8.00 |
| <i>Wheat</i> | 3.50 | 0.37 | 70.00 | 0.32 | 20.00 |
| <i>Maize</i> | 706.25 | 73.96 | 20,423.06 | 92.19 | 28.92 |
| <i>Sorghum</i> | 0.00 | 0.00 | 0.00 | 0.00 | |
| <i>Finger millet</i> | 30.00 | 3.14 | 45.00 | 0.20 | 1.50 |
| <i>Oats / 'Aja'</i> | - | - | - | - | - |
| <i>Rice</i> | - | - | - | - | - |
| Pulses | 14.39 | 1.51 | 137.90 | 0.62 | |
| <i>Faba beans</i> | - | - | - | - | - |
| <i>Field peas</i> | 1.50 | 0.16 | 9.00 | 0.04 | 6.00 |
| <i>Haricot beans</i> | 12.89 | 1.35 | 128.90 | 0.58 | 10.00 |
| <i>Chick-peas</i> | - | - | - | - | - |
| <i>Lentils</i> | - | - | - | - | - |
| <i>Grass peas</i> | - | - | - | - | - |
| <i>Soya beans</i> | - | - | - | - | - |
| <i>Fenugreek</i> | - | - | - | - | - |
| Oilseeds | 148.25 | 15.53 | 1,310.00 | 5.91 | |
| <i>Neug</i> | - | - | - | - | - |
| <i>Linseed</i> | - | - | - | - | - |
| <i>Groundnuts</i> | - | - | - | - | - |
| <i>Safflower</i> | - | - | - | - | - |
| <i>Sesame</i> | 148.25 | 15.53 | 1,310.00 | 5.91 | 8.84 |
| <i>Rape seed</i> | - | - | - | - | - |
| Vegetables | 398.31 | 100 | 38,015.46 | 100.00 | |
| <i>Lettuce</i> | 11.75 | 2.95 | 809.00 | 2.13 | 68.85 |
| <i>Head cabbage</i> | 33.82 | 8.49 | 4,429.42 | 11.65 | 130.97 |
| <i>Ethiopian cabbage</i> | 58.71 | 14.74 | 8,030.15 | 21.12 | 136.78 |
| <i>Tomatoes</i> | 140.89 | 35.37 | 17,592.63 | 46.28 | 124.87 |
| <i>Green peppers</i> | 86.59 | 21.74 | 4,927.45 | 12.96 | 56.91 |
| <i>Red peppers</i> | 63.80 | 16.02 | 2,013.81 | 5.30 | 31.56 |
| <i>Swiss chard</i> | 2.75 | 0.69 | 213.00 | 0.56 | 77.45 |
| Root crops | 201.45 | 100 | 26,781.82 | 100.00 | |
| <i>Beetroot</i> | 2.85 | 1.41 | 650.90 | 2.43 | 228.39 |
| <i>Carrot</i> | 30.74 | 15.26 | 2,066.00 | 7.71 | 67.21 |
| <i>Onion</i> | 156.61 | 77.74 | 22,746.42 | 84.93 | 145.24 |
| <i>Potatoes</i> | 8.44 | 4.19 | 1,072.00 | 4.00 | 127.01 |
| <i>Garlic</i> | 0.50 | 0.25 | 15.00 | 0.06 | 30.00 |
| <i>Sweet potatoes</i> | 2.31 | 1.15 | 231.50 | 0.86 | 100.22 |
| Other Temporary crops | 57.83 | 100 | 1,326.90 | 100.00 | |

Table 3.1 Estimates of Cropland Area and Production of Major Crops For Commercial Farms, 2007/08 (2000 E.C.), Belg Season

Tigray Region

| Crop Types | Total Grain Crops | | | | Crop Productivity/ Yield (QTS/Ha) |
|------------------------------|-------------------|--------------|-----------------|---------------|--------------------------------------|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 87.80 | 100 | 2,158.00 | 100.00 | |
| Cereals | 86.30 | 98.29 | 2,149.00 | 99.58 | |
| <i>Teff</i> | - | - | - | - | - |
| <i>Barley</i> | 0.50 | 0.57 | 4.00 | 0.19 | 8.00 |
| <i>Wheat</i> | - | - | - | - | - |
| <i>Maize</i> | 85.80 | 97.72 | 2,145.00 | 99.40 | 25.00 |
| <i>Sorghum</i> | - | - | - | - | - |
| <i>Finger millet</i> | - | - | - | - | - |
| <i>Oats / 'Aja'</i> | - | - | - | - | - |
| <i>Rice</i> | - | - | - | - | - |
| Pulses | 1.50 | 1.71 | 9.00 | 0.42 | |
| <i>Faba beans</i> | - | - | - | - | - |
| <i>Field peas</i> | 1.50 | 1.71 | 9.00 | 0.42 | 6.00 |
| <i>Haricot beans</i> | - | - | - | - | - |
| <i>Chick-peas</i> | - | - | - | - | - |
| <i>Lentils</i> | - | - | - | - | - |
| <i>Grass peas</i> | - | - | - | - | - |
| <i>Soya beans</i> | - | - | - | - | - |
| <i>Fenugreek</i> | - | - | - | - | - |
| Oilseeds | - | - | - | - | |
| <i>Neug</i> | - | - | - | - | - |
| <i>Linseed</i> | - | - | - | - | - |
| <i>Groundnuts</i> | - | - | - | - | - |
| <i>Safflower</i> | - | - | - | - | - |
| <i>Sesame</i> | - | - | - | - | - |
| <i>Rape seed</i> | - | - | - | - | - |
| Vegetables | 77.30 | 100 | 9,678.00 | 100.00 | |
| <i>Lettuce</i> | 8.70 | 11.25 | 685.00 | 7.08 | 78.74 |
| <i>Head cabbage</i> | 4.25 | 5.50 | 425.00 | 4.39 | 100.00 |
| <i>Ethiopian cabbage</i> | 29.00 | 37.52 | 3,920.00 | 40.50 | 135.17 |
| <i>Tomatoes</i> | 0.50 | 0.65 | 8.00 | 0.08 | 16.00 |
| <i>Green peppers</i> | 28.30 | 36.61 | 4,245.00 | 43.86 | 150.00 |
| <i>Red peppers</i> | 6.55 | 8.47 | 395.00 | 4.08 | 60.31 |
| <i>Swiss chard</i> | - | - | - | - | - |
| Root crops | 16.00 | 100 | 1,430.00 | 100.00 | |
| <i>Beetroot</i> | - | - | - | - | - |
| <i>Carrot</i> | - | - | - | - | - |
| <i>Onion</i> | 12.00 | 75.00 | 950.00 | 66.43 | 79.17 |
| <i>Potatoes</i> | 4.00 | 25.00 | 480.00 | 33.57 | 120.00 |
| <i>Garlic</i> | - | - | - | - | - |
| <i>Sweet potatoes</i> | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | - |

Table 3.2 Estimates of Cropland Area and Production of Major Crops For Commercial Farms, 2007/08 (2000 E.C.), Belg Season

AMHARA Region

| <i>Crop Types</i> | Total Grain Crops | | | | Crop Productivity/ Yield (QTS/Ha) |
|------------------------------|--------------------------|--------------|----------------------|---------------|--|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 140.27 | 100 | 2,872.83 | 100.00 | |
| Cereals | 127.38 | 90.81 | 2,743.93 | 95.51 | |
| <i>Teff</i> | 24.00 | 17.11 | 93.00 | 3.24 | 3.88 |
| <i>Barley</i> | - | - | - | - | - |
| <i>Wheat</i> | 3.50 | 2.50 | 70.00 | 2.44 | 20.00 |
| <i>Maize</i> | 99.88 | 71.21 | 2,580.93 | 89.84 | 25.84 |
| <i>Sorghum</i> | - | - | - | - | - |
| <i>Finger millet</i> | - | - | - | - | - |
| <i>Oats / 'Aja'</i> | - | - | - | - | - |
| <i>Rice</i> | - | - | - | - | - |
| Pulses | 12.89 | 9.19 | 128.90 | 4.49 | |
| <i>Faba beans</i> | - | - | - | - | - |
| <i>Field peas</i> | - | - | - | - | - |
| <i>Haricot beans</i> | 12.89 | 9.19 | 128.90 | 4.49 | 10.00 |
| <i>Chick-peas</i> | - | - | - | - | - |
| <i>Lentils</i> | - | - | - | - | - |
| <i>Grass peas</i> | - | - | - | - | - |
| <i>Soya beans</i> | - | - | - | - | - |
| <i>Fenugreek</i> | - | - | - | - | - |
| Oilseeds | | | | | |
| <i>Neug</i> | - | - | - | - | - |
| <i>Linseed</i> | - | - | - | - | - |
| <i>Groundnuts</i> | - | - | - | - | - |
| <i>Safflower</i> | - | - | - | - | - |
| <i>Sesame</i> | - | - | - | - | - |
| <i>Rape seed</i> | - | - | - | - | - |
| Vegetables | 89.28 | 100 | 11,067.14 | 100.00 | |
| <i>Lettuce</i> | 0.25 | 0.28 | 37.00 | 0.33 | 148.00 |
| <i>Head cabbage</i> | 1.64 | 1.84 | 385.40 | 3.48 | 235.00 |
| <i>Ethiopian cabbage</i> | 26.61 | 29.81 | 3,996.15 | 36.11 | 150.17 |
| <i>Tomatoes</i> | 41.95 | 46.99 | 5,323.39 | 48.10 | 126.90 |
| <i>Green peppers</i> | 0.15 | 0.17 | 4.00 | 0.04 | 26.67 |
| <i>Red peppers</i> | 18.43 | 20.64 | 1,151.20 | 10.40 | 62.46 |
| <i>Swiss chard</i> | 0.25 | 0.28 | 170.00 | 1.54 | 680.00 |
| Root crops | 32.37 | 100 | 2,110.40 | 100.00 | |
| <i>Beetroot</i> | 0.51 | 1.58 | 55.90 | 2.65 | 109.61 |
| <i>Carrot</i> | 29.30 | 90.52 | 1,815.00 | 86.00 | 61.95 |
| <i>Onion</i> | - | - | - | - | - |
| <i>Potatoes</i> | - | - | - | - | - |
| <i>Garlic</i> | 0.25 | 0.77 | 8.00 | 0.38 | 32.00 |
| <i>Sweet potatoes</i> | 2.31 | 7.14 | 231.50 | 10.97 | 100.22 |
| Other Temporary crops | 1.00 | 100 | 150.00 | 100.00 | |

Table 3.3 Estimates of Cropland Area and Production of Major Crops For Commercial Farms, 2007/08 (2000 E.C.), Belg Season

Oromia Region

| <i>Crop Types</i> | Total Grain Crops | | | | Crop Productivity/ Yield (QTS/Ha) |
|------------------------------|--------------------------|----------|----------------------|----------|--|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 154.22 | 100 | 5,991.60 | 100.00 | |
| Cereals | 154.22 | 100.00 | 5,991.60 | 100.00 | |
| <i>Teff</i> | 28.00 | 18.16 | 70.00 | 1.17 | 2.50 |
| <i>Barley</i> | - | - | - | - | - |
| <i>Wheat</i> | - | - | - | - | - |
| <i>Maize</i> | 126.22 | 81.84 | 5,921.60 | 98.83 | 46.91 |
| <i>Sorghum</i> | - | - | - | - | - |
| <i>Finger millet</i> | - | - | - | - | - |
| <i>Oats / 'Aja'</i> | - | - | - | - | - |
| <i>Rice</i> | - | - | - | - | - |
| Pulses | - | - | - | - | |
| <i>Faba beans</i> | - | - | - | - | - |
| <i>Field peas</i> | - | - | - | - | - |
| <i>Haricot beans</i> | - | - | - | - | - |
| <i>Chick-peas</i> | - | - | - | - | - |
| <i>Lentils</i> | - | - | - | - | - |
| <i>Grass peas</i> | - | - | - | - | - |
| <i>Soya beans</i> | - | - | - | - | - |
| <i>Fenugreek</i> | - | - | - | - | - |
| Oilseeds | - | - | - | - | |
| <i>Neug</i> | - | - | - | - | - |
| <i>Linseed</i> | - | - | - | - | - |
| <i>Groundnuts</i> | - | - | - | - | - |
| <i>Safflower</i> | - | - | - | - | - |
| <i>Sesame</i> | - | - | - | - | - |
| <i>Rape seed</i> | - | - | - | - | - |
| Vegetables | 93.56 | 100 | 12,628.37 | 100.00 | |
| <i>Lettuce</i> | 2.80 | 2.99 | 87.00 | 0.69 | 31.07 |
| <i>Head cabbage</i> | 17.30 | 18.49 | 3,437.60 | 27.22 | 198.71 |
| <i>Ethiopian cabbage</i> | 3.10 | 3.31 | 114.00 | 0.90 | 36.77 |
| <i>Tomatoes</i> | 61.88 | 66.14 | 8,857.00 | 70.14 | 143.13 |
| <i>Green peppers</i> | 1.50 | 1.60 | 45.00 | 0.36 | 30.00 |
| <i>Red peppers</i> | 4.48 | 4.79 | 44.77 | 0.35 | 9.99 |
| <i>Swiss chard</i> | 2.50 | 2.67 | 43.00 | 0.34 | 17.20 |
| Root crops | 129.49 | 100 | 22,455.00 | 100.00 | |
| <i>Beetroot</i> | 2.34 | 1.81 | 595.00 | 2.65 | 254.27 |
| <i>Carrot</i> | 1.44 | 1.11 | 251.00 | 1.12 | 174.31 |
| <i>Onion</i> | 121.02 | 93.46 | 21,010.00 | 93.56 | 173.61 |
| <i>Potatoes</i> | 4.44 | 3.43 | 592.00 | 2.64 | 133.33 |
| <i>Garlic</i> | 0.25 | 0.19 | 7.00 | 0.03 | 28.00 |
| <i>Sweet potatoes</i> | - | - | - | - | - |
| Other Temporary crops | 47.08 | 100 | 1,150.00 | 100.00 | |

Table 3.4 Estimates of Cropland Area and Production of Major Crops for Commercial Farms, 2007/08 (2000 E.C.), Belg Season
Somali Region

| <i>Crop Types</i> | Total Grain Crops | | | | Crop Productivity/ Yield (QTS/Ha) |
|------------------------------|--------------------------|----------|----------------------|----------|--|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 12.75 | 100 | 345.00 | 100.00 | |
| Cereals | 12.75 | 100.00 | 345.00 | 100.00 | |
| <i>Teff</i> | - | - | - | - | - |
| <i>Barley</i> | - | - | - | - | - |
| <i>Wheat</i> | - | - | - | - | - |
| <i>Maize</i> | 12.75 | 100.00 | 345.00 | 100.00 | 27.06 |
| <i>Sorghum</i> | - | - | - | - | - |
| <i>Finger millet</i> | - | - | - | - | - |
| <i>Oats / 'Aja'</i> | - | - | - | - | - |
| <i>Rice</i> | - | - | - | - | - |
| Pulses | - | - | - | - | |
| <i>Faba beans</i> | - | - | - | - | - |
| <i>Field peas</i> | - | - | - | - | - |
| <i>Haricot beans</i> | - | - | - | - | - |
| <i>Chick-peas</i> | - | - | - | - | - |
| <i>Lentils</i> | - | - | - | - | - |
| <i>Grass peas</i> | - | - | - | - | - |
| <i>Soya beans</i> | - | - | - | - | - |
| <i>Fenugreek</i> | - | - | - | - | - |
| Oilseeds | - | - | - | - | |
| <i>Neug</i> | - | - | - | - | - |
| <i>Linseed</i> | - | - | - | - | - |
| <i>Groundnuts</i> | - | - | - | - | - |
| <i>Safflower</i> | - | - | - | - | - |
| <i>Sesame</i> | - | - | - | - | - |
| <i>Rape seed</i> | - | - | - | - | - |
| Vegetables | 21.49 | 100 | 2,486.00 | 100.00 | |
| <i>Lettuce</i> | - | - | - | - | - |
| <i>Head cabbage</i> | 1.20 | 5.58 | 40.00 | 1.61 | 33.33 |
| <i>Ethiopian cabbage</i> | - | - | - | - | - |
| <i>Tomatoes</i> | 11.49 | 53.47 | 2,150.00 | 86.48 | 187.12 |
| <i>Green peppers</i> | 3.50 | 16.29 | 250.00 | 10.06 | 71.43 |
| <i>Red peppers</i> | 5.30 | 24.66 | 46.00 | 1.85 | 8.68 |
| <i>Swiss chard</i> | - | - | - | - | - |
| Root crops | 6.55 | 100 | 630.00 | 100.00 | |
| <i>Beetroot</i> | - | - | - | - | - |
| <i>Carrot</i> | - | - | - | - | - |
| <i>Onion</i> | 6.55 | 100 | 630.00 | 100.00 | 96.18 |
| <i>Potatoes</i> | - | - | - | - | - |
| <i>Garlic</i> | - | - | - | - | - |
| <i>Sweet potatoes</i> | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | |

Table 3.5 Estimates of Cropland Area and Production of Major Crops For Commercial Farms, 2007/08 (2000 E.C.), Belg Season

SNNP Region

| Crop Types | Total Grain Crops | | | | Crop Productivity/ Yield (QTS/Ha) |
|------------------------------|-------------------|-------|---------------|--------|---|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 545.45 | 100 | 10,165.53 | 100.00 | |
| Cereals | 397.20 | 72.82 | 8,855.53 | 87.11 | |
| Teff | - | - | - | - | - |
| Barley | - | - | - | - | - |
| Wheat | - | - | - | - | - |
| Maize | 367.20 | 67.32 | 8,810.53 | 86.67 | 23.99 |
| Sorghum | - | - | - | - | - |
| Finger millet | 30.00 | 5.50 | 45.00 | 0.44 | 1.50 |
| Oats / 'Aja' | - | - | - | - | - |
| Rice | - | - | - | - | - |
| Pulses | - | - | - | - | |
| Faba beans | - | - | - | - | - |
| Field peas | - | - | - | - | - |
| Haricot beans | - | - | - | - | - |
| Chick-peas | - | - | - | - | - |
| Lentils | - | - | - | - | - |
| Grass peas | - | - | - | - | - |
| Soya beans | - | - | - | - | - |
| Fenugreek | - | - | - | - | - |
| Oilseeds | 148.25 | 27.18 | 1,310.00 | 12.89 | |
| Neug | - | - | - | - | - |
| Linseed | - | - | - | - | - |
| Groundnuts | - | - | - | - | - |
| Safflower | - | - | - | - | - |
| Sesame | 148.25 | 27.18 | 1,310.00 | 12.89 | 8.84 |
| Rape seed | - | - | - | - | - |
| Vegetables | 114.93 | 100 | 1,651.95 | 100.00 | |
| Lettuce | - | - | - | - | - |
| Head cabbage | 9.43 | 8.20 | 141.42 | 8.56 | 15.00 |
| Ethiopian cabbage | - | - | - | - | - |
| Tomatoes | 23.57 | 20.51 | 754.24 | 45.66 | 32.00 |
| Green peppers | 52.89 | 46.02 | 379.45 | 22.97 | 7.17 |
| Red peppers | 29.04 | 25.27 | 376.84 | 22.81 | 12.98 |
| Swiss chard | - | - | - | - | - |
| Root crops | 16.79 | 100 | 151.42 | 100.00 | |
| Beetroot | - | - | - | - | - |
| Carrot | - | - | - | - | - |
| Onion | 16.79 | 100 | 151.42 | 100.00 | 9.02 |
| Potatoes | - | - | - | - | - |
| Garlic | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - |
| Other Temporary crops | 9.75 | 100 | 26.90 | 100.00 | |

Table 3.6 Estimates of Cropland Area and Production of Major Crops For Commercial Farms, 2007/08 (2000 E.C.), Belg Season

Harari Region

| <i>Crop Types</i> | Total Grain Crops | | | | Crop Productivity/ Yield (QTS/Ha) |
|------------------------------|--------------------------|----------|----------------------|----------|--|
| | Cropland area in | | Production in | | |
| | Hectare | % | Quintals | % | |
| Grain | 14.40 | 100 | 620.00 | 100 | |
| Cereals | 14.40 | 100 | 620.00 | 100 | |
| <i>Teff</i> | - | - | - | - | - |
| <i>Barley</i> | - | - | - | - | - |
| <i>Wheat</i> | - | - | - | - | - |
| <i>Maize</i> | 14.40 | 100 | 620.00 | 100.00 | 43.06 |
| <i>Sorghum</i> | - | - | - | - | - |
| <i>Finger millet</i> | - | - | - | - | - |
| <i>Oats / 'Aja'</i> | - | - | - | - | - |
| <i>Rice</i> | - | - | - | - | - |
| Pulses | - | - | - | - | |
| <i>Faba beans</i> | - | - | - | - | - |
| <i>Field peas</i> | - | - | - | - | - |
| <i>Haricot beans</i> | - | - | - | - | - |
| <i>Chick-peas</i> | - | - | - | - | - |
| <i>Lentils</i> | - | - | - | - | - |
| <i>Grass peas</i> | - | - | - | - | - |
| <i>Soya beans</i> | - | - | - | - | - |
| <i>Fenugreek</i> | - | - | - | - | - |
| Oilseeds | - | - | - | - | |
| <i>Neug</i> | - | - | - | - | - |
| <i>Linseed</i> | - | - | - | - | - |
| <i>Groundnuts</i> | - | - | - | - | - |
| <i>Safflower</i> | - | - | - | - | - |
| <i>Sesame</i> | - | - | - | - | - |
| <i>Rape seed</i> | - | - | - | - | - |
| Vegetables | 1.75 | 100 | 504.00 | 100.00 | |
| <i>Lettuce</i> | - | - | - | - | - |
| <i>Head cabbage</i> | - | - | - | - | - |
| <i>Ethiopian cabbage</i> | - | - | - | - | - |
| <i>Tomatoes</i> | 1.50 | 85.71 | 500.00 | 99.21 | 333.33 |
| <i>Green peppers</i> | 0.25 | 14.29 | 4.00 | 0.79 | 16.00 |
| <i>Red peppers</i> | - | - | - | - | - |
| <i>Swiss chard</i> | - | - | - | - | - |
| Root crops | 0.25 | 100 | 5.00 | 100 | |
| <i>Beetroot</i> | - | - | - | - | - |
| <i>Carrot</i> | - | - | - | - | - |
| <i>Onion</i> | 0.25 | 100 | 5.00 | 100 | 20.00 |
| <i>Potatoes</i> | - | - | - | - | - |
| <i>Garlic</i> | - | - | - | - | - |
| <i>Sweet potatoes</i> | - | - | - | - | - |
| 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 ,2007/08 (2000 E.C.), Both Seasons**

Ethiopia

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|---------------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 494,281 | 152,720 | 228,955 | 173,442 | 167,738 | 140,332 | 322,209 |
| Grain | 300,956 | 97,835 | 84,298 | 118,657 | 113,493 | 98,585 | 83,911 |
| Cereals | 158,830 | 88,171 | 77,746 | 102,567 | 100,751 | 86,452 | 78,168 |
| Teff | 4,629 | 3,447 | 1,712 | 3,599 | 3,216 | 360 | 89 |
| Barley | 614 | 2,112 | 1,742 | 1,022 | 1,012 | 103 | 123 |
| Wheat | 33,498 | 26,275 | 14,123 | 35,169 | 34,959 | 32,222 | 61,352 |
| Maize | 54,486 | 56,297 | 60,144 | 62,604 | 61,246 | 52,836 | 16,403 |
| Sorghum | 65,509 | 38 | 20 | 168 | 310 | 896 | 197 |
| Finger millet | 88 | 0 | 0 | 3 | 3 | 33 | 2 |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | 6 | 2 | 5 | 2 | 5 | 2 | 2 |
| Pulses | 20,273 | 8,425 | 5,965 | 12,272 | 9,089 | 7,454 | 4,513 |
| Faba beans | 430 | - | - | 242 | 178 | 88 | 193 |
| Field peas | 12 | 10 | 1 | 120 | 60 | 0 | 0 |
| Haricot beans | 6,312 | 610 | 933 | 1,457 | 1,163 | 4,239 | 1,839 |
| Chick-peas | 3,753 | 71 | 298 | 173 | 142 | 767 | 675 |
| Lentils | 60 | - | - | 4 | 3 | 2 | 2 |
| Grass peas | 16 | - | - | - | - | - | - |
| Soya beans | 9,649 | 7,734 | 4,734 | 10,270 | 7,541 | 2,358 | 1,803 |
| Fenugreek | 43 | - | - | 6 | 3 | 0 | 0 |
| Oilseeds | 121,852 | 1,211 | 545 | 3,791 | 3,596 | 4,652 | 1,216 |
| Neug | 1,411 | 0 | 0 | 0 | 0 | 159 | 13 |
| Linseed | 304 | 32 | 18 | 142 | 80 | 91 | 36 |
| Groundnuts | 81 | - | - | - | - | 18 | 11 |
| Safflower | 336 | - | - | - | - | 333 | 36 |
| Sesame | 117,732 | 835 | 496 | 1,661 | 718 | 2,406 | 817 |
| Rape seed | 1,989 | 344 | 31 | 1,989 | 2,798 | 1,645 | 303 |
| Vegetables | 11,238 | 10,732 | 51,250 | 23,419 | 10,291 | 4,552 | 253 |
| Lettuce | 200 | 172 | 305 | 2 | 0.38 | 21 | 2 |
| Head cabbage | 388 | 232 | 400 | 12,112 | 60 | 173 | 5 |
| Ethiopian cabbage | 88 | 16 | 13 | 13 | 3 | 0 | 0 |
| Tomatoes | 4,731 | 3,915 | 40,822 | 3,758 | 4,665 | 1,229 | 57 |
| Green peppers | 371 | 254 | 166 | 207 | 74 | 183 | 62 |
| Red peppers | 5,441 | 6,133 | 9,533 | 7,323 | 5,486 | 2,942 | 128 |
| Swiss chard | 20 | 10 | 12 | 4 | 2 | 3 | 0 |
| Root crops | 8,036 | 7,228 | 15,151 | 7,184 | 18,926 | 2,351 | 527 |
| Beetroot | 109 | 50 | 25 | 7 | 10 | 98 | 133 |
| Carrot | 167 | 15 | 25 | 1 | 1 | 4 | 0 |
| Onion | 7,601 | 7,115 | 15,042 | 7,124 | 18,827 | 2,168 | 104 |
| Potatoes | 87 | 4 | 2 | 11 | 23 | 45 | 101 |
| Garlic | 65 | 32 | 54 | 41 | 64 | 36 | 189 |
| Sweet potatoes | 5 | 13 | 3 | - | - | - | - |
| Other Temporary crops | 6,581 | 2,616 | 2,553 | 2,347 | 2,629 | 4,813 | 1,376 |
| Permanent crops | 167471 | 34308 | 75702 | 21836 | 22400 | 30031 | 236142 |
| Fruit crops | 5339 | 2243 | 6252 | 2664 | 3063 | 455 | 0.00 |
| Avocados | 135 | - | - | 678 | 1350 | 26 | - |
| Bananas | 1630 | - | - | - | - | 141 | - |
| Guavas | 370 | 362 | 1748 | 362 | 232 | - | - |
| Lemons | 108 | 105 | 195 | 105 | 54 | - | - |
| Mangoes | 1011 | 766 | 1369 | 357 | 233 | 141 | - |
| Oranges | 794 | 351 | 2766 | 501 | 1094 | 144 | - |
| Papayas | 1140 | 658 | 173 | 661 | 99 | 2 | - |
| Pineapples | 151 | 0 | 0 | 0 | 0 | 0 | - |
| Cash Crops | 58965 | 18851 | 16226 | 15053 | 12318 | 23797 | 4763 |
| Chat | 456 | - | - | - | - | - | - |
| Coffee | 54340 | 18851 | 16226 | 15053 | 12318 | 23797 | 4763 |
| Tea | 4170 | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - | - |
| Sugar cane | 23466 | 10544 | 50100 | 1710 | 3562 | 1860 | 229976 |
| Cotton | 42056 | 2363 | 2295 | 2104 | 2411 | 3682 | 1214 |
| Other Permanent Crops | 37646 | 307 | 829 | 305 | 1046 | 238 | 189 |

Ethiopia

Table 4 Contd
Both Seasons

| Crop Type | Chemicals | | | | | |
|------------------------------|----------------|--------------|---------------|--------------|----------------|--------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 164,632 | 5,382 | 69,686 | 1,523 | 142,169 | 3,299 |
| Grain | 57,884 | 861 | 26,665 | 249 | 89,684 | 1,490 |
| Cereals | 35,458 | 551 | 26,086 | 238 | 87,422 | 1,459 |
| Teff | 138 | 2 | 29 | 0 | 727 | 9 |
| Barley | - | - | - | - | 204.59 | 1.67 |
| Wheat | 6,462 | 42 | 23,110 | 134 | 41,165 | 389 |
| Maize | 14,175 | 331 | 2,278 | 86 | 14,461 | 495 |
| Sorghum | 14,682 | 177 | 669 | 17 | 30,855 | 565 |
| Finger millet | - | - | - | - | 9.00 | 0.17 |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | 3,675 | 114 | 545 | 11 | 1,059 | 21 |
| Faba beans | 3.00 | 0.03 | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | 569 | 8 | 527 | 11 | 396 | 13 |
| Chick-peas | 1,488 | 69 | 0 | 0 | 0 | 0 |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | 1,616 | 37 | 18 | 0 | 663 | 9 |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | 18,751 | 195 | 33 | 0 | 1,202 | 9 |
| Neug | 388 | 5 | 0 | 0 | 0 | 0 |
| Linseed | - | - | - | - | - | - |
| Groundnuts | 8.00 | 0.02 | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | 17,317 | 185 | 33 | 0 | 255 | 2 |
| Rape seed | 1,039 | 6 | 0 | 0 | 948 | 7 |
| Vegetables | 18,049 | 2,246 | 10,566 | 240 | 238 | 18 |
| Lettuce | 0 | 0 | 0 | 0 | 0 | 0 |
| Head cabbage | 423 | 1,753 | 1 | 0 | 0 | 0 |
| Ethiopian cabbage | 8 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 16,860 | 389 | 10,394 | 237 | 209 | 18 |
| Green peppers | 280 | 3 | 108 | 3 | 0 | 0 |
| Red peppers | 479 | 101 | 63 | 1 | 29 | 0 |
| Swiss chard | 0 | 0 | 0 | 0 | 0 | 0 |
| Root crops | 19,640 | 663 | 15,166 | 763 | 106 | 8 |
| Beetroot | 1 | 0 | - | - | - | - |
| Carrot | 1 | 0 | 12 | 0 | - | - |
| Onion | 19,590 | 662 | 15,149 | 763 | 106 | 8 |
| Potatoes | 4 | 0 | 1 | 0 | - | - |
| Garlic | 45 | 1 | 4 | 0 | 0 | 0 |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | 1,318 | 14 | 994 | 13 | 34 | 1 |
| Permanent crops | 67,741 | 1,599 | 16,295 | 257 | 52,107 | 1,783 |
| Fruit crops | 4,303 | 150 | 3,049 | 92 | 696 | 52 |
| Avocados | - | - | - | - | - | - |
| Bananas | - | - | - | - | 14 | 1 |
| Guavas | 1,448 | 53 | 362 | 4 | 0 | 0 |
| Lemons | 211 | 10 | 211 | 23 | 105 | 10 |
| Mangoes | 547 | 18 | 949 | 42 | 253 | 13 |
| Oranges | 1,048 | 56 | 284 | 5 | 324 | 27 |
| Papayas | 1,050 | 13 | 1,244 | 19 | - | - |
| Pineapples | - | - | - | - | - | - |
| Cash Crops | - | - | 3 | 0 | 15,868 | 324 |
| Chat | - | - | - | - | - | - |
| Coffee | - | - | 3 | 0 | 15,868 | 324 |
| Tea | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - |
| Sugar cane | 22,211 | 115 | 9,167 | 18 | 35,382 | 1,375 |
| Cotton | 40,915 | 1,188 | 3,617 | 67 | - | - |
| Other Crops | 312 | 145 | 459 | 80 | 161 | 32 |

Table 5 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2007/08 (2000 E.C.), Meher (Main) Season

Ethiopia

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|---------------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 530,314.44 | 152,541.34 | 229,186.52 | 173,256.84 | 168,263.91 | 139,857.72 | 321,778.25 |
| Grain | 300,001.05 | 97,542.96 | 84,017.03 | 118,313.14 | 113,213.27 | 98,171.10 | 83,329.78 |
| Cereals | 158,038.16 | 87,925.78 | 77,535.66 | 102,269.43 | 100,538.85 | 86,209.06 | 78,124.31 |
| Teff | 4,576.89 | 3,447.15 | 1,711.91 | 3,593.88 | 3,214.06 | 360.16 | 89.19 |
| Barley | 613.67 | 2,112.26 | 1,741.68 | 1,021.95 | 1,012.40 | 102.50 | 123.40 |
| Wheat | 33,494.06 | 26,274.59 | 14,123.07 | 35,168.75 | 34,958.53 | 32,221.62 | 61,351.67 |
| Maize | 53,780.22 | 56,051.30 | 59,934.04 | 62,311.33 | 61,035.38 | 52,623.46 | 16,361.17 |
| Sorghum | 65,508.86 | 38.00 | 20.00 | 167.72 | 310.20 | 895.52 | 196.61 |
| Finger millet | 58.02 | 0.00 | 0.00 | 3.32 | 3.32 | 3.32 | 0.53 |
| Oats / 'Aja' | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Rice | 6.44 | 2.48 | 4.96 | 2.48 | 4.96 | 2.48 | 1.74 |
| Pulses | 20,258.97 | 8,406.26 | 5,936.33 | 12,252.51 | 9,078.91 | 7,453.61 | 4,512.84 |
| Faba beans | 429.83 | 0.00 | 0.00 | 241.82 | 177.50 | 87.96 | 193.02 |
| Field peas | 10.21 | 10.08 | 0.63 | 120.40 | 60.20 | 0.00 | 0.00 |
| Haricot beans | 6,298.68 | 591.38 | 904.27 | 1,438.09 | 1,152.26 | 4,238.78 | 1,839.40 |
| Chick-peas | 3,752.65 | 70.62 | 297.90 | 172.52 | 141.88 | 766.51 | 675.37 |
| Lentils | 59.50 | 0.00 | 0.00 | 3.88 | 2.91 | 2.10 | 2.10 |
| Grass peas | 16.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Soya beans | 9,648.60 | 7,734.18 | 4,733.53 | 10,269.98 | 7,541.25 | 2,358.26 | 1,802.95 |
| Fenugreek | 43.05 | 0.00 | 0.00 | 5.82 | 2.91 | 0.00 | 0.00 |
| Oilseeds | 121,703.92 | 1,210.92 | 545.04 | 3,791.20 | 3,595.51 | 4,508.43 | 692.63 |
| Neug | 1,410.70 | 0.00 | 0.00 | 0.00 | 0.00 | 159.00 | 12.72 |
| Linseed | 303.75 | 32.08 | 18.43 | 141.64 | 79.54 | 91.24 | 36.00 |
| Groundnuts | 80.84 | 0.00 | 0.00 | 0.00 | 0.00 | 18.00 | 11.20 |
| Safflower | 335.65 | 0.00 | 0.00 | 0.00 | 0.00 | 332.65 | 35.77 |
| Sesame | 117,584.02 | 834.68 | 496.07 | 1,660.90 | 717.61 | 2,263.04 | 293.69 |
| Rape seed | 1,988.96 | 344.16 | 30.54 | 1,988.66 | 2,798.36 | 1,644.50 | 303.25 |
| Vegetables | 10,840.11 | 10,635.41 | 51,119.17 | 23,358.53 | 10,215.03 | 4,361.71 | 243.29 |
| Lettuce | 188.32 | 165.52 | 302.47 | 2.00 | 0.38 | 21.16 | 1.70 |
| Head cabbage | 354.25 | 225.99 | 393.75 | 12,107.27 | 58.46 | 152.87 | 3.99 |
| Ethiopian cabbage | 29.19 | 13.28 | 11.08 | 12.70 | 3.42 | 0.00 | 0.00 |
| Tomatoes | 4,590.21 | 3,869.95 | 40,718.77 | 3,727.79 | 4,611.26 | 1,140.18 | 55.40 |
| Green peppers | 284.03 | 249.43 | 161.77 | 202.71 | 69.59 | 132.35 | 55.07 |
| Red peppers | 5,376.86 | 6,106.23 | 9,521.61 | 7,301.59 | 5,469.67 | 2,914.88 | 127.12 |
| Swiss chard | 17.25 | 5.01 | 9.72 | 4.47 | 2.25 | 0.27 | 0.01 |
| Root crops | 7,834.28 | 7,159.71 | 15,008.23 | 7,125.56 | 18,816.76 | 2,270.48 | 512.67 |
| Beetroot | 106.60 | 49.51 | 24.66 | 6.92 | 9.95 | 95.16 | 132.14 |
| Carrot | 136.34 | 14.12 | 23.83 | 0.50 | 0.40 | 2.77 | 0.10 |
| Onion | 7,444.86 | 7,067.94 | 14,906.76 | 7,074.20 | 18,722.76 | 2,095.78 | 101.25 |
| Potatoes | 78.85 | 0.25 | 0.20 | 7.42 | 21.24 | 45.26 | 101.12 |
| Garlic | 64.93 | 27.89 | 52.78 | 36.52 | 62.41 | 31.51 | 178.06 |
| Sweet potatoes | 2.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Temporary crops | 6,522.82 | 2,588.17 | 2,510.83 | 2,318.78 | 2,572.82 | 4,784.53 | 1,362.14 |
| Permanent crops | 167,470.68 | 34,307.78 | 75,702.29 | 21,835.52 | 22,399.64 | 30,031.45 | 236,141.81 |
| Fruit crops | 5,339.25 | 2,242.54 | 6,252.12 | 2,663.75 | 3,062.55 | 454.54 | 0.00 |
| Avocados | 134.70 | 0.00 | 0.00 | 677.50 | 1,349.96 | 26.42 | 0.00 |
| Bananas | 1,630.32 | 0.00 | 0.00 | 0.00 | 0.00 | 141.42 | 0.00 |
| Guavas | 369.55 | 362.15 | 1,748.48 | 362.15 | 232.12 | 0.00 | 0.00 |
| Lemons | 108.35 | 105.40 | 195.33 | 105.40 | 54.33 | 0.16 | 0.00 |
| Mangoes | 1,011.12 | 765.74 | 1,369.43 | 356.56 | 232.89 | 141.42 | 0.00 |
| Oranges | 793.94 | 350.79 | 2,765.87 | 500.68 | 1,094.15 | 143.57 | 0.00 |
| Papayas | 1,139.88 | 658.46 | 173.01 | 661.46 | 99.10 | 1.55 | 0.00 |
| Pineapples | 151.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cash Crops | 58,965.07 | 18,851.06 | 16,226.03 | 15,052.51 | 12,317.73 | 23,796.97 | 4,763.19 |
| Chat | 455.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coffee | 54,339.60 | 18,851.06 | 16,226.03 | 15,052.51 | 12,317.73 | 23,796.97 | 4,763.19 |
| Tea | 4,169.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sugar cane | 23,465.66 | 10,544.25 | 50,100.39 | 1,709.67 | 3,561.80 | 1,859.81 | 229,976.07 |
| Cotton | 42,056.05 | 2,362.62 | 2,294.78 | 2,104.28 | 2,411.17 | 3,681.68 | 1,213.99 |
| Other Crops | 37,645.50 | 307.31 | 828.97 | 305.31 | 1,046.39 | 238.45 | 188.56 |

Table 5.1 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2007/08 (2000 E.C.), Meher (Main) Season

TIGRAY Region

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|---------------------------|-----------------------------|---------------|---------------|---------------|---------------|-------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 103,181.87 | 209.08 | 211.35 | 198.09 | 193.54 | 0.00 | 0.00 |
| Grain | 100116.68 | 69.36 | 42.65 | 54.86 | 32.00 | 0.00 | 0.00 |
| Cereals | 36759.63 | 39.36 | 32.65 | 24.86 | 22.00 | 0.00 | 0.00 |
| Teff | 214.40 | - | - | - | - | - | - |
| Barley | 1.00 | - | - | - | - | - | - |
| Wheat | 47.80 | - | - | - | - | - | - |
| Maize | 48.34 | 39.36 | 32.65 | 24.86 | 22.00 | 0.00 | 0.00 |
| Sorghum | 36448.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | 54.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Faba beans | 15.00 | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - | - |
| Chick-peas | 6.00 | - | - | - | - | - | - |
| Lentils | 22.00 | - | - | - | - | - | - |
| Grass peas | 11.20 | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | 63302.85 | 30.00 | 10.00 | 30.00 | 10.00 | 0.00 | 0.00 |
| Neug | - | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - | - |
| Groundnuts | 41.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Safflower | - | - | - | - | - | - | - |
| Sesame | 63261.05 | 30.00 | 10.00 | 30.00 | 10.00 | 0.00 | 0.00 |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 298.33 | 87.61 | 81.33 | 81.80 | 72.42 | 0.00 | 0.00 |
| Lettuce | 4.42 | 2.00 | 1.13 | 2.00 | 0.38 | 0.00 | 0.00 |
| Head cabbage | 6.34 | 5.00 | 4.75 | 1.09 | 5.00 | 0.00 | 0.00 |
| Ethiopian cabbage | - | - | - | - | - | - | - |
| Tomatoes | 140.45 | 31.44 | 44.22 | 30.11 | 38.72 | 0.00 | 0.00 |
| Green peppers | 46.14 | 3.99 | 8.30 | 3.99 | 8.30 | 0.00 | 0.00 |
| Red peppers | 86.87 | 40.39 | 13.43 | 40.14 | 17.77 | 0.00 | 0.00 |
| Swiss chard | 14.11 | 4.79 | 9.50 | 4.47 | 2.25 | 0.00 | 0.00 |
| Root crops | 100.35 | 8.30 | 16.61 | 18.62 | 19.11 | 0.00 | 0.00 |
| Beetroot | - | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - | - |
| Onion | 97.86 | 8.30 | 16.61 | 18.62 | 19.11 | 0.00 | 0.00 |
| Potatoes | - | - | - | - | - | - | - |
| Garlic | 2.49 | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | 285.00 | - | - | - | - | - | - |
| Permanent crops | 2057.86 | 27.53 | 36.88 | 26.53 | 36.13 | 0.00 | 0.00 |
| Fruit crops | 73.41 | 11.25 | 3.00 | 10.25 | 2.25 | 0.00 | 0.00 |
| Avocados | - | - | - | - | - | - | - |
| Bananas | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Guavas | 0.25 | 0.25 | 0.50 | 0.25 | 0.50 | 0.00 | 0.00 |
| Lemons | - | - | - | - | - | - | - |
| Mangoes | - | - | - | - | - | - | - |
| Oranges | 9.00 | 9.00 | 1.50 | 1.00 | 1.00 | 0.00 | 0.00 |
| Papayas | 56.66 | 2.00 | 1.00 | 9.00 | 0.75 | 0.00 | 0.00 |
| Pineapples | - | - | - | - | - | - | - |
| Cash Crops | - | - | - | - | - | - | - |
| Chat | - | - | - | - | - | - | - |
| Coffee | - | - | - | - | - | - | - |
| Tea | - | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - | - |
| Sugar cane | - | - | - | - | - | - | - |
| Cotton | 1660.80 | - | - | - | - | - | - |
| Other Crops | 323.65 | 16.28 | 33.88 | 16.28 | 33.88 | 0.00 | 0.00 |

Table 5.2 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2007/08 (2000 E.C.), Meher (Main) Season

Afar Region

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|---------------------------|-----------------------------|------------------|------------------|------------------|------------------|-----------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 28,731.83 | 23,770.12 | 23,983.61 | 26,917.08 | 24,410.03 | 20,653.29 | 7,688.95 |
| Grain | 1248.96 | 20,969.09 | 19,416.17 | 23,581.11 | 21,939.80 | 18,295.74 | 7,469.05 |
| Cereals | 1115.66 | 17,876.51 | 17,338.03 | 19,707.67 | 19,053.23 | 16,871.87 | 6,781.49 |
| Teff | 1115.66 | 1,470.31 | 666.55 | 1,496.81 | 1,300.28 | 147.02 | 41.09 |
| Barley | - | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - | - |
| Maize | - | - | - | - | - | - | - |
| Sorghum | - | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | 133.30 | 0.00 | 0.00 | 0.00 | 0.00 | 503.91 | 55.31 |
| Neug | - | - | - | - | - | - | - |
| Linsced | - | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - |
| Sesame | 133.30 | 0.00 | 0.00 | 0.00 | 0.00 | 494.91 | 49.71 |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 111.60 | 2,800.28 | 4,563.44 | 3,308.97 | 2,405.23 | 1,398.60 | 75.06 |
| Lettuce | - | - | - | - | - | - | - |
| Head cabbage | - | - | - | - | - | - | - |
| Ethiopian cabbage | - | - | - | - | - | - | - |
| Tomatoes | - | - | - | - | - | - | - |
| Green peppers | - | - | - | - | - | - | - |
| Red peppers | 111.60 | 2,800.28 | 4,563.44 | 3,308.97 | 2,405.23 | 1,392.12 | 56.86 |
| Swiss chard | - | - | - | - | - | - | - |
| Root crops | 64.32 | 0.50 | 1.00 | 0.00 | 0.00 | 28.55 | 36.39 |
| Beetroot | - | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - | - |
| Onion | 64.32 | 0.50 | 1.00 | 0.00 | 0.00 | 26.74 | 0.14 |
| Potatoes | - | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | 930.40 | 0.00 | 0.00 | 0.00 | 0.00 | 930.40 | 108.45 |
| Permanent crops | 25421.95 | 0.25 | 3.00 | 27.00 | 65.00 | 0.00 | 0.00 |
| Fruit crops | 69.19 | 0.25 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Avocados | - | - | - | - | - | - | - |
| Bananas | - | - | - | - | - | - | - |
| Guavas | - | - | - | - | - | - | - |
| Lemons | - | - | - | - | - | - | - |
| Mangoes | 44.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Oranges | 24.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Papayas | - | - | - | - | - | - | - |
| Pineapples | - | - | - | - | - | - | - |
| Cash Crops | - | - | - | - | - | - | - |
| Chat | - | - | - | - | - | - | - |
| Coffee | - | - | - | - | - | - | - |
| Tea | - | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - | - |
| Sugar cane | 81.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cotton | 24316.36 | 0.00 | 0.00 | 11.00 | 5.00 | 0.00 | 0.00 |
| Other Crops | 954.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table 5.3 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2007/08 (2000 E.C.), Meher (Main) Season

AMHARA Region

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|---------------------------|-----------------------------|------------------|------------------|------------------|------------------|-----------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 103,772.70 | 23,770.12 | 23,983.61 | 26,928.08 | 24,415.03 | 19,728.89 | 7,580.53 |
| Grain | 96536.47 | 20,969.09 | 19,416.17 | 23,581.11 | 21,939.80 | 18,295.74 | 7,469.05 |
| Cereals | 43976.80 | 17,876.51 | 17,338.03 | 19,707.67 | 19,053.23 | 16,871.87 | 6,781.49 |
| Teff | 2043.38 | 1,470.31 | 666.55 | 1,496.81 | 1,300.28 | 147.02 | 41.09 |
| Barley | 368.56 | 368.56 | 183.28 | 368.56 | 363.56 | 4.00 | 4.00 |
| Wheat | 1872.66 | 1,888.61 | 1,502.81 | 1,900.41 | 2,064.17 | 1,888.11 | 3,343.38 |
| Maize | 17134.79 | 14,149.03 | 14,985.39 | 15,876.94 | 15,195.32 | 14,544.38 | 3,361.41 |
| Sorghum | 22557.41 | 0.00 | 0.00 | 64.95 | 129.90 | 288.36 | 31.61 |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | 7130.90 | 3,092.58 | 2,078.14 | 3,873.44 | 2,886.57 | 919.96 | 632.25 |
| Faba beans | 251.53 | 0.00 | 0.00 | 65.86 | 34.93 | 0.00 | 0.00 |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | 538.60 | 0.00 | 0.00 | 7.00 | 4.00 | 143.84 | 143.84 |
| Chick-peas | 2648.99 | 0.00 | 0.00 | 0.00 | 0.00 | 77.54 | 77.54 |
| Lentils | 6.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | 3655.44 | 3,092.58 | 2,078.14 | 3,800.58 | 2,847.64 | 698.58 | 410.87 |
| Fenugreek | 30.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Oilseeds | 45428.77 | 0.00 | 0.00 | 0.00 | 0.00 | 503.91 | 55.31 |
| Neug | 441.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Linseed | 141.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Groundnuts | 9.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.00 | 5.60 |
| Safflower | 2.00 | - | - | - | - | - | - |
| Sesame | 44834.34 | 0.00 | 0.00 | 0.00 | 0.00 | 494.91 | 49.71 |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 3862.07 | 2,800.28 | 4,563.44 | 3,308.97 | 2,405.23 | 1,398.60 | 75.06 |
| Lettuce | 17.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Head cabbage | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.01 |
| Ethiopian cabbage | - | - | - | - | - | - | - |
| Tomatoes | 7.02 | 0.00 | 0.00 | 0.00 | 0.00 | 5.98 | 18.19 |
| Green peppers | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Red peppers | 3836.75 | 2,800.28 | 4,563.44 | 3,308.97 | 2,405.23 | 1,392.12 | 56.86 |
| Swiss chard | - | - | - | - | - | - | - |
| Root crops | 23.03 | 0.50 | 1.00 | 0.00 | 0.00 | 28.55 | 36.39 |
| Beetroot | 0.10 | - | - | - | - | - | - |
| Carrot | 11.54 | - | - | - | - | - | - |
| Onion | 9.33 | 0.50 | 1.00 | 0.00 | 0.00 | 26.74 | 0.14 |
| Potatoes | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Garlic | 1.81 | 0.00 | 0.00 | 0.00 | 0.00 | 1.81 | 36.25 |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | 81.62 | 0.00 | 0.00 | 11.00 | 5.00 | 6.00 | 0.03 |
| Permanent crops | 3173.56 | 0.25 | 3.00 | 27.00 | 65.00 | 0.00 | 0.00 |
| Fruit crops | 265.45 | 0.25 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Avocados | 1.25 | - | - | - | - | - | - |
| Bananas | 40.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Guavas | 0.26 | - | - | - | - | - | - |
| Lemons | - | - | - | - | - | - | - |
| Mangoes | 32.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Oranges | 29.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Papayas | 162.07 | 0.25 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pineapples | - | - | - | - | - | - | - |
| Cash Crops | 61.72 | 0.00 | 0.00 | 16.00 | 60.00 | 0.00 | 0.00 |
| Chat | 3.50 | - | - | - | - | - | - |
| Coffee | 58.22 | 0.00 | 0.00 | 16.00 | 60.00 | 0.00 | 0.00 |
| Tea | - | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - | - |
| Sugar cane | 9.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cotton | 2740.96 | 0.00 | 0.00 | 11.00 | 5.00 | 0.00 | 0.00 |
| Other Crops | 95.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table 5.4 Estimates of Farm Input Applied Cropland Area and Quantity of Input used by Crop and input type: For Commercial Farms ,2007/08 (2000 E.C.), Meher (Main) Season

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|---------------------------|-----------------------------|-------------------|------------------|------------------|------------------|-------------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 193,421.13 | 82,132.30 | 157,813.87 | 94,076.12 | 99,187.45 | 65,378.48 | 294,450.52 |
| Grain | 73464.68 | 43,173.80 | 35,340.79 | 56,349.26 | 56,922.98 | 46,667.79 | 62,593.92 |
| Cereals | 59355.03 | 40,931.05 | 33,368.96 | 50,504.87 | 51,824.02 | 43,738.50 | 61,194.21 |
| Teff | 834.66 | 384.03 | 332.13 | 430.45 | 472.87 | 61.12 | 3.46 |
| Barley | 215.73 | 1,375.14 | 1,375.12 | 280.45 | 280.90 | 94.50 | 115.40 |
| Wheat | 30276.05 | 22,025.07 | 10,816.09 | 30,205.33 | 29,523.69 | 27,465.46 | 52,868.22 |
| Maize | 22086.08 | 17,106.33 | 20,820.66 | 19,550.84 | 21,507.28 | 15,804.42 | 8,072.54 |
| Sorghum | 5878.05 | 38.00 | 20.00 | 32.00 | 31.00 | 307.20 | 132.32 |
| Finger millet | 58.02 | - | - | 3.32 | 3.32 | 3.32 | 0.53 |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | 6.44 | 2.48 | 4.96 | 2.48 | 4.96 | 2.48 | 1.74 |
| Pulses | 6181.98 | 1,074.93 | 1,445.84 | 2,164.61 | 1,530.10 | 926.45 | 988.21 |
| Faba beans | 86.56 | 0.00 | 0.00 | 85.56 | 100.44 | 87.96 | 193.02 |
| Field peas | - | 0.00 | 0.00 | 120.40 | 60.20 | 0.00 | 0.00 |
| Haricot beans | 1924.20 | 390.21 | 716.19 | 944.27 | 634.18 | 565.43 | 411.62 |
| Chick-peas | 233.58 | 0.00 | 268.50 | 73.96 | 73.96 | 73.96 | 55.47 |
| Lentils | 17.68 | 0.00 | 0.00 | 0.00 | 0.00 | 2.10 | 2.10 |
| Grass peas | 5.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Soya beans | 3907.48 | 684.72 | 461.15 | 940.42 | 661.32 | 197.00 | 326.00 |
| Fenugreek | 7.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Oilseeds | 7927.67 | 1,167.82 | 525.99 | 3,679.78 | 3,568.86 | 2,002.84 | 411.50 |
| Neug | 635.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Linsced | 134.22 | 23.98 | 14.38 | 115.22 | 70.39 | 91.24 | 36.00 |
| Groundnuts | 30.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Safflower | 185.00 | 0.00 | 0.00 | 0.00 | 0.00 | 185.00 | 21.00 |
| Sesame | 4954.38 | 799.68 | 481.07 | 1,575.90 | 700.11 | 82.10 | 51.25 |
| Rape seed | 1988.66 | 344.16 | 30.54 | 1,988.66 | 2,798.36 | 1,644.50 | 303.25 |
| Vegetables | 5478.07 | 4,536.56 | 39,285.11 | 16,118.25 | 4,740.92 | 1,184.76 | 74.01 |
| Lettuce | 166.30 | 163.52 | 301.34 | 0.00 | 0.00 | 0.05 | 0.01 |
| Head cabbage | 203.26 | 211.89 | 380.65 | 12,097.08 | 48.50 | 12.64 | 0.41 |
| Ethiopian cabbage | 22.61 | 7.70 | 10.46 | 7.12 | 2.80 | 0.00 | 0.00 |
| Tomatoes | 4322.16 | 3,804.48 | 38,386.79 | 3,687.68 | 4,552.54 | 1,036.71 | 17.73 |
| Green peppers | 231.26 | 234.06 | 143.16 | 187.34 | 55.86 | 125.61 | 55.01 |
| Red peppers | 529.56 | 114.91 | 62.71 | 139.03 | 81.22 | 9.70 | 0.84 |
| Swiss chard | 2.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.01 |
| Root crops | 7294.86 | 7,083.49 | 14,951.78 | 7,052.15 | 18,661.33 | 1,928.64 | 201.43 |
| Beetroot | 10.11 | 0.00 | 0.00 | 0.00 | 0.00 | 3.23 | 0.04 |
| Carrot | 122.11 | 11.68 | 21.49 | 0.00 | 0.00 | 0.58 | 0.04 |
| Onion | 7072.10 | 7,043.92 | 14,877.51 | 7,015.63 | 18,598.92 | 1,896.94 | 95.79 |
| Potatoes | 27.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Garlic | 60.13 | 27.89 | 52.78 | 36.52 | 62.41 | 27.89 | 105.56 |
| Sweet potatoes | 2.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Temporary crops | 2068.50 | 2,095.70 | 2,474.90 | 1,815.33 | 2,525.86 | 1,251.86 | 760.92 |
| Permanent crops | 76308.08 | 24,983.16 | 65,193.77 | 12,481.54 | 15,399.92 | 14,345.43 | 230,820.24 |
| Fruit crops | 2773.79 | 2,088.17 | 4,300.94 | 2,510.88 | 2,358.12 | 26.05 | 0.00 |
| Avocados | 30.93 | - | - | 677.50 | 1,349.96 | 14.63 | 0.00 |
| Bananas | 30.21 | - | - | - | - | - | - |
| Guavas | 361.90 | 361.90 | 1,747.98 | 361.90 | 231.62 | 0.00 | 0.00 |
| Lemons | 104.42 | 105.28 | 195.29 | 105.28 | 54.29 | 0.00 | 0.00 |
| Mangoes | 768.80 | 765.74 | 1,369.43 | 356.56 | 232.89 | 0.00 | 0.00 |
| Oranges | 562.83 | 199.54 | 822.30 | 357.43 | 391.08 | 11.42 | 0.00 |
| Papayas | 910.91 | 655.71 | 165.94 | 652.21 | 98.28 | 0.00 | 0.00 |
| Pineapples | 3.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cash Crops | 20064.39 | 10,242.12 | 8,039.99 | 6,411.57 | 6,184.35 | 11,369.86 | 122.91 |
| Chat | 24.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coffee | 20040.06 | 10,242.12 | 8,039.99 | 6,411.57 | 6,184.35 | 11,369.86 | 122.91 |
| Tea | - | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - | - |
| Sugar cane | 23374.13 | 10,523.13 | 50,026.47 | 1,709.67 | 3,561.80 | 1,859.81 | 229,976.07 |
| Cotton | 1288.83 | 1,870.15 | 2,258.85 | 1,589.83 | 2,359.21 | 1,089.71 | 721.26 |
| Other Crops | 28806.94 | 259.59 | 567.52 | 259.59 | 936.44 | 0.00 | 0.00 |

Table 5.5 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2007/08 (2000 E.C.), Meher (Main) Season

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|---------------------------|-----------------------------|-----------------|---------------|-----------------|---------------|-------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 581.93 | 207.33 | 2,418.39 | 199.83 | 1,128.37 | 208.16 | 0.18 |
| Grain | 214.57 | 22.82 | 79.90 | 20.57 | 301.61 | - | - |
| Cereals | 199.07 | 22.57 | 79.70 | 20.57 | 301.61 | - | - |
| Teff | - | - | - | - | - | - | - |
| Barley | 24.00 | - | - | - | - | - | - |
| Wheat | 43.00 | - | - | - | - | - | - |
| Maize | 121.57 | 22.57 | 79.70 | 20.57 | 301.61 | 0.00 | 0.00 |
| Sorghum | 10.50 | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | 2.50 | 0.25 | 0.20 | - | - | - | - |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | 2.50 | 0.25 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | 13.00 | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | 1.00 | - | - | - | - | - | - |
| Sesame | 12.00 | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 18.75 | 6.25 | 0.53 | 5.50 | 0.06 | 11.00 | 0.10 |
| Lettuce | - | - | - | - | - | - | - |
| Head cabbage | - | - | - | - | - | - | - |
| Ethiopian cabbage | 1.00 | - | - | - | - | - | - |
| Tomatoes | 11.00 | 0.75 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| Green peppers | 4.37 | 3.37 | 0.05 | 3.37 | 0.04 | 6.74 | 0.06 |
| Red peppers | 2.38 | 2.13 | 0.03 | 2.13 | 0.02 | 4.26 | 0.04 |
| Swiss chard | - | - | - | - | - | - | - |
| Root crops | 24.13 | 2.88 | 0.96 | 2.38 | 15.70 | 2.38 | 0.08 |
| Beetroot | 1.00 | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - | - |
| Onion | 21.38 | 2.63 | 0.76 | 2.38 | 15.70 | 2.38 | 0.08 |
| Potatoes | 1.25 | 0.25 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| Garlic | 0.50 | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | - | - | - |
| Permanent crops | 278.29 | 145.19 | 2,112.50 | 143.19 | 737.00 | 161.49 | 0.00 |
| Fruit crops | 226.60 | 115.00 | 1,888.00 | 115.00 | 663.00 | 128.20 | 0.00 |
| Avocados | - | - | - | - | - | - | - |
| Bananas | 66.00 | - | - | - | - | - | - |
| Guavas | 7.10 | - | - | - | - | - | - |
| Lemons | 3.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mangoes | 10.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Oranges | 130.15 | 115.00 | 1,888.00 | 115.00 | 663.00 | 126.90 | 0.00 |
| Papayas | 9.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 0.00 |
| Pineapples | - | - | - | - | - | - | - |
| Cash Crops | 5.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chat | 5.25 | - | - | - | - | - | - |
| Coffee | - | - | - | - | - | - | - |
| Tea | - | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - | - |
| Sugar cane | 0.25 | - | - | - | - | - | - |
| Cotton | - | - | - | - | - | - | - |
| Other Crops | 46.19 | 30.19 | 224.50 | 28.19 | 74.00 | 33.29 | 0.00 |

Table 5.6 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2007/08 (2000 E.C.), Meher (Main) Season

BENISHANGUL-GUMUZ Region

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|---------------------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|---------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 8,548.30 | 3,012.12 | 2,115.43 | 3,578.12 | 2,769.88 | 2,221.66 | 912.26 |
| Grain | 8440.38 | 3,012.12 | 2,115.43 | 3,578.12 | 2,769.88 | 2,221.66 | 912.26 |
| Cereals | 2811.82 | 2,147.82 | 1,999.33 | 1,927.82 | 1,708.33 | 1,100.66 | 236.10 |
| Teff | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Barley | - | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - | - |
| Maize | 2489.82 | 2,147.82 | 1,999.33 | 1,927.82 | 1,708.33 | 1,100.66 | 236.10 |
| Sorghum | 317.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | 1895.53 | 864.30 | 116.10 | 1,600.30 | 1,056.55 | 644.00 | 638.00 |
| Faba beans | 69.23 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 2.00 |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | 1826.30 | 864.30 | 116.10 | 1,600.30 | 1,056.55 | 636.00 | 636.00 |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | 3733.03 | 0.00 | 0.00 | 50.00 | 5.00 | 477.00 | 38.16 |
| Neug | 215.50 | 0.00 | 0.00 | 0.00 | 0.00 | 159.00 | 12.72 |
| Linseed | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - |
| Sesame | 3514.53 | 0.00 | 0.00 | 50.00 | 5.00 | 318.00 | 25.44 |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 101.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lettuce | - | - | - | - | - | - | - |
| Head cabbage | - | - | - | - | - | - | - |
| Ethiopian cabbage | - | - | - | - | - | - | - |
| Tomatoes | 1.56 | - | - | - | - | - | - |
| Green peppers | - | - | - | - | - | - | - |
| Red peppers | 99.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Swiss chard | - | - | - | - | - | - | - |
| Root crops | 0.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Beetroot | - | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - | - |
| Onion | 0.78 | - | - | - | - | - | - |
| Potatoes | - | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | - | - | - |
| Permanent crops | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fruit crops | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Avocados | 2.00 | - | - | - | - | - | - |
| Bananas | - | - | - | - | - | - | - |
| Guavas | - | - | - | - | - | - | - |
| Lemons | - | - | - | - | - | - | - |
| Mangoes | - | - | - | - | - | - | - |
| Oranges | - | - | - | - | - | - | - |
| Papayas | - | - | - | - | - | - | - |
| Pineapples | - | - | - | - | - | - | - |
| Cash Crops | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chat | - | - | - | - | - | - | - |
| Coffee | 4.00 | - | - | - | - | - | - |
| Tea | - | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - | - |
| Sugar cane | - | - | - | - | - | - | - |
| Cotton | - | - | - | - | - | - | - |
| Other Crops | - | - | - | - | - | - | - |

Table 5.7 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2007/08 (2000 E.C.), Meher (Main) Season

S.N.N.P Region

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|---------------------------------|-----------------------------|------------------|------------------|------------------|------------------|------------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 82,461.07 | 19,437.31 | 18,658.10 | 21,357.34 | 16,157.69 | 31,657.46 | 11,145.75 |
| Grain | 19886.31 | 9,326.68 | 7,605.92 | 11,148.11 | 9,307.20 | 12,690.17 | 4,885.50 |
| Cereals | 13727.15 | 9,031.96 | 7,378.96 | 10,375.97 | 8,576.43 | 7,626.16 | 3,131.02 |
| Teff | 363.79 | 122.50 | 46.68 | 169.81 | 140.63 | 5.00 | 3.55 |
| Barley | 4.38 | 0.00 | 0.00 | 4.38 | 4.38 | 0.00 | 0.00 |
| Wheat | 1254.55 | 472.30 | 301.36 | 1,162.60 | 1,306.50 | 979.94 | 1,796.69 |
| Maize | 11806.62 | 8,437.16 | 7,030.92 | 9,033.36 | 7,105.52 | 6,629.62 | 1,329.71 |
| Sorghum | 297.81 | 0.00 | 0.00 | 5.82 | 19.40 | 11.60 | 1.07 |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | 4993.86 | 281.62 | 217.91 | 740.72 | 719.12 | 4,043.24 | 1,622.13 |
| Faba beans | 5.01 | 0.00 | 0.00 | 24.54 | 7.20 | 0.00 | 0.00 |
| Field peas | 10.21 | 10.08 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| Haricot beans | 3835.88 | 200.92 | 187.88 | 479.82 | 510.08 | 3,377.67 | 1,138.10 |
| Chick-peas | 864.08 | 70.62 | 29.40 | 98.56 | 67.92 | 537.47 | 464.82 |
| Lentils | 13.48 | 0.00 | 0.00 | 3.88 | 2.91 | 0.00 | 0.00 |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | 259.38 | 0.00 | 0.00 | 128.10 | 128.10 | 128.10 | 19.21 |
| Fenugreek | 5.82 | 0.00 | 0.00 | 5.82 | 2.91 | 0.00 | 0.00 |
| Oilseeds | 1165.30 | 13.10 | 9.05 | 31.42 | 11.65 | 1,020.77 | 132.35 |
| Neug | 118.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Linseed | 24.93 | 8.10 | 4.05 | 26.42 | 9.15 | 0.00 | 0.00 |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | 147.65 | 0.00 | 0.00 | 0.00 | 0.00 | 147.65 | 14.77 |
| Sesame | 874.42 | 5.00 | 5.00 | 5.00 | 2.50 | 873.12 | 117.58 |
| Rape seed | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vegetables | 968.86 | 403.39 | 2,624.28 | 534.78 | 590.78 | 367.72 | 19.04 |
| Lettuce | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.11 | 1.69 |
| Head cabbage | 143.70 | 9.10 | 8.35 | 9.10 | 4.96 | 138.98 | 3.55 |
| Ethiopian cabbage | 5.58 | 5.58 | 0.62 | 5.58 | 0.62 | 0.00 | 0.00 |
| Tomatoes | 107.46 | 32.72 | 2,286.75 | 10.00 | 20.00 | 90.95 | 1.28 |
| Green peppers | 2.00 | 7.75 | 10.00 | 7.75 | 5.00 | 0.00 | 0.00 |
| Red peppers | 710.12 | 348.24 | 318.56 | 502.35 | 560.20 | 116.68 | 12.52 |
| Swiss chard | - | - | - | - | - | - | - |
| Root crops | 326.02 | 63.70 | 36.54 | 52.07 | 120.11 | 281.57 | 238.37 |
| Beetroot | 95.19 | 49.51 | 24.66 | 6.92 | 9.95 | 91.73 | 132.10 |
| Carrot | 2.44 | 2.44 | 2.34 | 0.50 | 0.40 | 1.94 | 0.06 |
| Onion | 178.75 | 11.75 | 9.54 | 37.23 | 88.52 | 142.64 | 5.09 |
| Potatoes | 49.64 | 0.00 | 0.00 | 7.42 | 21.24 | 45.26 | 101.12 |
| Garlic | - | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | 3155.72 | 492.24 | 35.70 | 492.22 | 41.61 | 2,595.70 | 492.72 |
| Permanent crops | 50739.47 | 9,150.30 | 8,352.66 | 9,129.16 | 6,095.99 | 15,517.89 | 5,321.56 |
| Fruit crops | 1915.95 | 27.00 | 54.00 | 27.00 | 39.00 | 294.63 | 0.00 |
| Avocados | 100.52 | 0.00 | 0.00 | 0.00 | 0.00 | 11.79 | 0.00 |
| Bananas | 1486.15 | 0.00 | 0.00 | 0.00 | 0.00 | 141.42 | 0.00 |
| Guavas | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lemons | - | - | - | - | - | - | - |
| Mangoes | 148.41 | 0.00 | 0.00 | 0.00 | 0.00 | 141.42 | 0.00 |
| Oranges | 32.60 | 27.00 | 54.00 | 27.00 | 39.00 | 0.00 | 0.00 |
| Papayas | 0.63 | - | - | - | - | - | - |
| Pincapples | 147.60 | - | - | - | - | - | - |
| Cash Crops | 38407.21 | 8,608.94 | 8,186.04 | 8,608.94 | 6,013.38 | 12,427.11 | 4,640.28 |
| Chat | - | - | - | - | - | - | - |
| Coffee | 34237.32 | 8,608.94 | 8,186.04 | 8,608.94 | 6,013.38 | 12,427.11 | 4,640.28 |
| Tea | 4169.89 | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - | - |
| Sugar cane | - | - | - | - | - | - | - |
| Cotton | 3031.62 | 492.24 | 35.70 | 492.22 | 41.61 | 2,591.74 | 492.72 |
| Other Crops | 7384.69 | 1.00 | 3.00 | 1.00 | 2.00 | 204.41 | 188.56 |

Table 5.8 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2007/08 (2000 E.C.), Meher (Main) Season

| Gambela Region | | | | | | | |
|------------------------------|---------------------------|-----------------------------|-------------|-------------|-------------|---------------|-------------|
| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | Area in Ha | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 9,596.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grain | 93.00 | - | - | - | - | - | - |
| Cereals | 93.00 | - | - | - | - | - | - |
| Teff | - | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - | - |
| Maize | 93.00 | - | - | - | - | - | - |
| Sorghum | - | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - | - |
| 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 | - | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | - | - | - |
| Permanent crops | 9471.48 | - | - | - | - | - | - |
| Fruit crops | - | - | - | - | - | - | - |
| Avocados | - | - | - | - | - | - | - |
| Bananas | - | - | - | - | - | - | - |
| Guavas | - | - | - | - | - | - | - |
| Lemons | - | - | - | - | - | - | - |
| Mangoes | - | - | - | - | - | - | - |
| Oranges | - | - | - | - | - | - | - |
| Papayas | - | - | - | - | - | - | - |
| Pineapples | - | - | - | - | - | - | - |
| Cash Crops | 422.00 | - | - | - | - | - | - |
| Chat | 422.00 | - | - | - | - | - | - |
| Coffee | - | - | - | - | - | - | - |
| Tea | - | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - | - |
| Sugar cane | - | - | - | - | - | - | - |
| Cotton | 9017.48 | - | - | - | - | - | - |
| Other Crops | 32.00 | - | - | - | - | - | - |

Table 5.9 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2007/08 (2000 E.C.), Meher (Main) Season

| HARARI Region | | | | | | | |
|------------------------------|---------------------------|-----------------------------|-------------|-------------|-------------|---------------|-------------|
| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 7.65 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | 0.01 |
| Grain | - | - | - | - | - | - | - |
| Cereals | - | - | - | - | - | - | - |
| Teff | - | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - | - |
| Maize | - | - | - | - | - | - | - |
| Sorghum | - | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.01 |
| Lettuce | - | - | - | - | - | - | - |
| Head cabbage | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.01 |
| Ethiopian cabbage | - | - | - | - | - | - | - |
| Tomatoes | - | - | - | - | - | - | - |
| Green peppers | - | - | - | - | - | - | - |
| Red peppers | - | - | - | - | - | - | - |
| Swiss chard | - | - | - | - | - | - | - |
| Root crops | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 |
| Beetroot | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 |
| Carrot | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 |
| Onion | - | - | - | - | - | - | - |
| Potatoes | - | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 |
| Permanent crops | 6.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 |
| Fruit crops | 6.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Avocados | - | - | - | - | - | - | - |
| Bananas | - | - | - | - | - | - | - |
| Guavas | - | - | - | - | - | - | - |
| Lemons | - | - | - | - | - | - | - |
| Mangoes | 6.00 | - | - | - | - | - | - |
| Oranges | - | - | - | - | - | - | - |
| Papayas | 0.25 | - | - | - | - | - | - |
| Pineapples | - | - | - | - | - | - | - |
| Cash Crops | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chat | 0.50 | - | - | - | - | - | - |
| Coffee | - | - | - | - | - | - | - |
| Tea | - | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - | - |
| Sugar cane | - | - | - | - | - | - | - |
| Cotton | - | - | - | - | - | - | - |
| Other Crops | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 |

Table 5.10 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2007/08 (2000 E.C.), Meher (Main) Season

DIRE DAWA CITY ADMINISTRATION

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|---------------------------|-----------------------------|-------------|-------------|-------------|---------------|-------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 10.48 | 2.96 | 2.16 | 2.18 | 1.92 | 8.04 | 0.04 |
| Grain | - | - | - | - | - | - | - |
| Cereals | - | - | - | - | - | - | - |
| Teff | - | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - | - |
| Maize | - | - | - | - | - | - | - |
| Sorghum | - | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 1.04 | 1.04 | 1.04 | 0.26 | 0.39 | 0.78 | 0.01 |
| Lettuce | - | - | - | - | - | - | - |
| Head cabbage | - | - | - | - | - | - | - |
| Ethiopian cabbage | - | - | - | - | - | - | - |
| Tomatoes | 0.56 | 0.56 | 0.56 | 0.00 | 0.00 | 0.56 | 0.01 |
| Green peppers | 0.26 | 0.26 | 0.26 | 0.26 | 0.39 | 0.00 | 0.00 |
| Red peppers | - | - | - | - | - | - | - |
| Swiss chard | 0.22 | 0.22 | 0.22 | 0.00 | 0.00 | 0.22 | 0.00 |
| Root crops | 0.34 | 0.34 | 0.34 | 0.34 | 0.51 | 0.34 | 0.01 |
| Beetroot | - | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - | - |
| Onion | 0.34 | 0.34 | 0.34 | 0.34 | 0.51 | 0.34 | 0.01 |
| Potatoes | - | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | 0.23 | 0.23 | 0.23 | 0.23 | 0.35 | 0.23 | 0.01 |
| Permanent crops | 7.74 | 1.10 | 0.48 | 1.10 | 0.60 | 6.29 | 0.01 |
| Fruit crops | 6.61 | 0.62 | 0.18 | 0.62 | 0.18 | 5.66 | 0.00 |
| Avocados | - | - | - | - | - | - | - |
| Bananas | - | - | - | - | - | - | - |
| Guavas | - | - | - | - | - | - | - |
| Lemons | 0.33 | 0.12 | 0.04 | 0.12 | 0.04 | 0.16 | 0.00 |
| Mangoes | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Oranges | 5.75 | 0.25 | 0.07 | 0.25 | 0.07 | 5.25 | 0.00 |
| Papayas | 0.36 | 0.25 | 0.07 | 0.25 | 0.07 | 0.25 | 0.00 |
| Pineapples | - | - | - | - | - | - | - |
| Cash Crops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chat | - | - | - | - | - | - | - |
| Coffec | - | - | - | - | - | - | - |
| Tea | - | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - | - |
| Sugar cane | - | - | - | - | - | - | - |
| Cotton | - | - | - | - | - | - | - |
| Other Crops | 1.13 | 0.25 | 0.07 | 0.25 | 0.07 | 0.40 | 0.00 |

Table 5 Contd

Ethiopia

Meher Season

| Crop Type | Chemicals | | | | | |
|------------------------------|------------------|-----------------|------------------|---------------|------------------|-----------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 144,778 | 4,855 | 54,859 | 837 | 142,157 | 3,323 |
| Grain | 57,688.59 | 858.64 | 26,600.21 | 248.89 | 89,617.19 | 1,489.51 |
| Cereals | 35,300.41 | 549.01 | 26,059.65 | 237.90 | 87,355.70 | 1,458.82 |
| Teff | 137.92 | 1.58 | 29.20 | 0.12 | 717.45 | 8.44 |
| Barley | 0.00 | 0.00 | 0.00 | 0.00 | 204.59 | 1.67 |
| Wheat | 6,462.40 | 41.73 | 23,109.63 | 134.38 | 41,165.31 | 388.97 |
| Maize | 14,018.21 | 329.02 | 2,251.62 | 86.09 | 14,404.74 | 494.33 |
| Sorghum | 14,681.88 | 176.68 | 669.20 | 17.31 | 30,854.61 | 565.24 |
| Finger millet | 0.00 | 0.00 | 0.00 | 0.00 | 9.00 | 0.17 |
| Oats / 'Aja' | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Rice | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pulses | 3,636.74 | 114.41 | 507.27 | 10.65 | 1,059.10 | 21.27 |
| Faba beans | 3.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| Field peas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Haricot beans | 530.54 | 8.14 | 489.27 | 10.47 | 396.10 | 12.71 |
| Chick-peas | 1,487.70 | 69.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lentils | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grass peas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Soya beans | 1,615.50 | 37.05 | 18.00 | 0.18 | 663.00 | 8.56 |
| Fenugreek | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Oilseeds | 18,751.44 | 195.22 | 33.29 | 0.34 | 1,202.39 | 9.42 |
| Neug | 387.87 | 4.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| Linseed | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Groundnuts | 8.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Safflower | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sesame | 17,317.07 | 184.85 | 33.29 | 0.34 | 254.89 | 2.20 |
| Rape seed | 1,038.50 | 5.71 | 0.00 | 0.00 | 947.50 | 7.22 |
| Vegetables | 17,830.14 | 2,238.02 | 10,511.25 | 238.00 | 237.58 | 18.25 |
| Lettuce | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Head cabbage | 402.82 | 1,752.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethiopian cabbage | 7.70 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tomatoes | 16,784.59 | 384.35 | 10,349.37 | 234.81 | 209.08 | 17.81 |
| Green peppers | 230.23 | 2.05 | 107.66 | 2.64 | 0.00 | 0.00 |
| Red peppers | 404.80 | 99.17 | 54.00 | 0.54 | 28.50 | 0.44 |
| Swiss chard | 0.00 | 0.00 | 0.22 | 0.01 | 0.00 | 0.00 |
| Root crops | 19,563.91 | 658.52 | 15,047.56 | 760.67 | 104.28 | 7.49 |
| Beetroot | 0.50 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| Carrot | 0.50 | 0.03 | 11.68 | 0.23 | 0.00 | 0.00 |
| Onion | 19,517.95 | 657.79 | 15,035.88 | 760.44 | 104.28 | 7.49 |
| Potatoes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Garlic | 44.96 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sweet potatoes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Temporary crops | 1,205.87 | 13.73 | 994.39 | 12.77 | 34.18 | 1.14 |
| Permanent crops | 67,741.29 | 1,598.74 | 16,294.67 | 257.23 | 52,107.15 | 1,782.64 |
| Fruit crops | 4,302.92 | 150.12 | 3,049.31 | 92.09 | 696.12 | 51.86 |
| Avocados | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Bananas | 0.00 | 0.00 | 0.00 | 0.00 | 14.00 | 1.12 |
| Guavas | 1,447.60 | 52.51 | 361.90 | 3.62 | 0.00 | 0.00 |
| Lemons | 210.56 | 10.40 | 210.56 | 22.96 | 105.28 | 10.46 |
| Mangoes | 547.05 | 17.71 | 948.62 | 42.29 | 252.56 | 13.22 |
| Oranges | 1,047.95 | 56.09 | 284.06 | 4.61 | 324.28 | 27.06 |
| Papayas | 1,049.76 | 13.41 | 1,244.17 | 18.61 | 0.00 | 0.00 |
| Pineapples | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cash Crops | 0.00 | 0.00 | 2.50 | 0.05 | 15,867.66 | 323.83 |
| Chat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coffee | 0.00 | 0.00 | 2.50 | 0.05 | 15,867.66 | 323.83 |
| Tea | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sugar cane | 22,211.11 | 114.73 | 9,167.27 | 18.00 | 35,382.03 | 1,375.06 |
| Cotton | 40,915.28 | 1,188.41 | 3,616.98 | 66.75 | 0.00 | 0.00 |
| Other Permanent Crops | 311.98 | 145.48 | 458.61 | 80.34 | 161.34 | 31.89 |

Table 5.1 Contd

| Crop Type | Chemicals | | | | | |
|------------------------------|------------------|---------------|---------------|--------------|------------------|---------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 28,820 | 309 | 674 | 17 | 11,261 | 126 |
| Grain | 28,775.75 | 307.25 | 669.20 | 17.31 | 11,227.11 | 124.84 |
| Cereals | 11,770.68 | 125.38 | 669.20 | 17.31 | 11,047.51 | 123.70 |
| Teff | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - |
| Maize | - | - | - | - | - | - |
| Sorghum | 11,770.68 | 125.38 | 669.20 | 17.31 | 11,047.51 | 123.70 |
| Finger millet | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Faba beans | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | 17,005.07 | 181.87 | 0.00 | 0.00 | 179.60 | 1.14 |
| Neug | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | 17,005.07 | 181.87 | 0.00 | 0.00 | 179.60 | 1.14 |
| Rape seed | - | - | - | - | - | - |
| Vegetables | 4.00 | 0.25 | 5.00 | 0.15 | 0.00 | 0.00 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | 4.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethiopian cabbage | - | - | - | - | - | - |
| Tomatoes | 0.00 | 0.00 | 5.00 | 0.15 | 0.00 | 0.00 |
| Green peppers | - | - | - | - | - | - |
| Red peppers | - | - | - | - | - | - |
| Swiss chard | - | - | - | - | - | - |
| Root crops | - | - | - | - | - | - |
| Beetroot | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - |
| Onion | - | - | - | - | - | - |
| Potatoes | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | 39.84 | 1.97 | 0.00 | 0.00 | 34.18 | 1.14 |
| Permanent crops | - | - | - | - | - | - |
| Fruit crops | - | - | - | - | - | - |
| Avocados | - | - | - | - | - | - |
| Bananas | - | - | - | - | - | - |
| Guavas | - | - | - | - | - | - |
| Lemons | - | - | - | - | - | - |
| Mangoes | - | - | - | - | - | - |
| Oranges | - | - | - | - | - | - |
| Papayas | - | - | - | - | - | - |
| Pineapples | - | - | - | - | - | - |
| Cash Crops | - | - | - | - | - | - |
| Chat | - | - | - | - | - | - |
| Coffee | - | - | - | - | - | - |
| Tea | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - |
| Sugar cane | - | - | - | - | - | - |
| Cotton | - | - | - | - | - | - |
| Other Permanent Crops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table 5.3 Contd

AMHARA Region

| Crop Type | Chemicals | | | | | |
|------------------------------|------------------|---------------|---------------|-------------|------------------|---------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 12,234 | 327 | 292 | 3 | 24,195 | 619 |
| Grain | 12,067.77 | 315.52 | 254.75 | 2.17 | 24,076.63 | 614.94 |
| Cereals | 8,734.70 | 263.14 | 203.46 | 1.65 | 23,715.34 | 610.14 |
| Teff | 5.50 | 0.11 | 29.20 | 0.12 | 72.75 | 0.91 |
| Barley | 0.00 | 0.00 | 0.00 | 0.00 | 16.00 | 0.05 |
| Wheat | 1,188.00 | 36.03 | 8.00 | 0.10 | 400.99 | 4.01 |
| Maize | 4,630.00 | 175.70 | 166.26 | 1.43 | 3,524.00 | 164.79 |
| Sorghum | 2,911.20 | 51.30 | 0.00 | 0.00 | 19,701.60 | 440.38 |
| Finger millet | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | 2,709.20 | 44.82 | 18.00 | 0.18 | 316.00 | 4.34 |
| Faba beans | 3.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| Field peas | - | - | - | - | - | - |
| Haricot beans | 23.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chick-peas | 1,067.70 | 7.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | 1,615.50 | 37.05 | 18.00 | 0.18 | 316.00 | 4.34 |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | 623.87 | 7.56 | 33.29 | 0.34 | 45.29 | 0.46 |
| Neug | 387.87 | 4.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| Linsced | - | - | - | - | - | - |
| Groundnuts | 8.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Safflower | - | - | - | - | - | - |
| Sesame | 228.00 | 2.90 | 33.29 | 0.34 | 45.29 | 0.46 |
| Rape seed | - | - | - | - | - | - |
| Vegetables | 136.15 | 11.38 | 36.55 | 0.40 | 25.00 | 0.25 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | 0.50 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethiopian cabbage | - | - | - | - | - | - |
| Tomatoes | 22.51 | 10.42 | 1.55 | 0.05 | 0.00 | 0.00 |
| Green peppers | 1.14 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Red peppers | 112.00 | 0.93 | 35.00 | 0.35 | 25.00 | 0.25 |
| Swiss chard | - | - | - | - | - | - |
| Root crops | 28.55 | 10.61 | 2.50 | 0.05 | 0.00 | 0.00 |
| Beetroot | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - |
| Onion | 26.74 | 10.54 | 2.50 | 0.05 | 0.00 | 0.00 |
| Potatoes | - | - | - | - | - | - |
| Garlic | 1.81 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | - | - |
| Permanent crops | 30.00 | 0.14 | 1.00 | 0.01 | 93.28 | 3.63 |
| Fruit crops | 30.00 | 0.14 | 1.00 | 0.01 | 88.28 | 3.60 |
| Avocados | - | - | - | - | - | - |
| Bananas | 0.00 | 0.00 | 0.00 | 0.00 | 14.00 | 1.12 |
| Guavas | - | - | - | - | - | - |
| Lemons | - | - | - | - | - | - |
| Mangoes | - | - | - | - | - | - |
| Oranges | 8.00 | 0.02 | 1.00 | 0.01 | 74.28 | 2.48 |
| Papayas | 22.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pineapples | - | - | - | - | - | - |
| Cash Crops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chat | - | - | - | - | - | - |
| Coffee | - | - | - | - | - | - |
| Tea | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - |
| Sugar cane | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 | 0.03 |
| Cotton | - | - | - | - | - | - |
| Other Permanent Crops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table 5.4 Contd

| Crop Type | Chemicals | | | | | |
|------------------------------|------------------|---------------|------------------|---------------|------------------|-----------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 63,352 | 1,152 | 51,807 | 801 | 94,291 | 2,151 |
| Grain | 15,088.82 | 188.12 | 25,018.26 | 225.23 | 46,698.91 | 502.26 |
| Cereals | 13,635.78 | 136.54 | 24,645.99 | 215.98 | 45,379.41 | 490.27 |
| Teff | 132.42 | 1.47 | 0.00 | 0.00 | 544.70 | 6.76 |
| Barley | 0.00 | 0.00 | 0.00 | 0.00 | 188.59 | 1.62 |
| Wheat | 5,274.40 | 5.70 | 22,670.63 | 131.62 | 39,957.32 | 373.16 |
| Maize | 8,228.96 | 129.37 | 1,975.36 | 84.36 | 4,629.30 | 107.95 |
| Sorghum | 0.00 | 0.00 | 0.00 | 0.00 | 50.50 | 0.61 |
| Finger millet | 0.00 | 0.00 | 0.00 | 0.00 | 9.00 | 0.17 |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | 414.54 | 45.87 | 372.27 | 9.25 | 342.00 | 4.17 |
| Faba beans | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | 404.54 | 5.87 | 372.27 | 9.25 | 30.00 | 0.30 |
| Chick-peas | 10.00 | 40.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | 0.00 | 0.00 | 0.00 | 0.00 | 312.00 | 3.87 |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | 1,038.50 | 5.71 | 0.00 | 0.00 | 977.50 | 7.82 |
| Neug | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | 0.00 | 0.00 | 0.00 | 0.00 | 30.00 | 0.60 |
| Rape seed | 1,038.50 | 5.71 | 0.00 | 0.00 | 947.50 | 7.22 |
| Vegetables | 17,092.11 | 368.87 | 10,449.36 | 237.23 | 212.58 | 18.00 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | 214.89 | 2.59 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethiopian cabbage | 7.70 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tomatoes | 16,671.43 | 364.15 | 10,341.70 | 234.59 | 209.08 | 17.81 |
| Green peppers | 198.09 | 1.86 | 107.66 | 2.64 | 0.00 | 0.00 |
| Red peppers | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 0.19 |
| Swiss chard | - | - | - | - | - | - |
| Root crops | 19,510.49 | 647.50 | 15,043.72 | 760.60 | 104.28 | 7.49 |
| Beetroot | 0.50 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| Carrot | 0.50 | 0.03 | 11.68 | 0.23 | 0.00 | 0.00 |
| Onion | 19,466.34 | 646.84 | 15,032.04 | 760.37 | 104.28 | 7.49 |
| Potatoes | - | - | - | - | - | - |
| Garlic | 43.15 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | 789.85 | 6.44 | 291.13 | 6.66 | 0.00 | 0.00 |
| Permanent crops | 30,070.04 | 443.38 | 15,590.01 | 251.11 | 47,218.66 | 1,598.88 |
| Fruit crops | 4,245.06 | 148.29 | 3,048.31 | 92.08 | 607.84 | 48.26 |
| Avocados | - | - | - | - | - | - |
| Bananas | - | - | - | - | - | - |
| Guavas | 1,447.60 | 52.51 | 361.90 | 3.62 | 0.00 | 0.00 |
| Lemons | 210.56 | 10.40 | 210.56 | 22.96 | 105.28 | 10.46 |
| Mangoes | 546.56 | 17.70 | 948.62 | 42.29 | 252.56 | 13.22 |
| Oranges | 1,012.58 | 54.39 | 283.06 | 4.60 | 250.00 | 24.58 |
| Papayas | 1,027.76 | 13.29 | 1,244.17 | 18.61 | 0.00 | 0.00 |
| Pineapples | - | - | - | - | - | - |
| Cash Crops | 0.00 | 0.00 | 2.50 | 0.05 | 11,072.45 | 143.70 |
| Chat | - | - | - | - | - | - |
| Coffee | 0.00 | 0.00 | 2.50 | 0.05 | 11,072.45 | 143.70 |
| Tea | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - |
| Sugar cane | 22,211.11 | 114.73 | 9,167.27 | 18.00 | 35,377.03 | 1,375.03 |
| Cotton | 3,302.89 | 35.02 | 2,913.78 | 60.66 | 0.00 | 0.00 |
| Other Permanent Crops | 310.98 | 145.34 | 458.15 | 80.32 | 161.34 | 31.89 |

Table 5.6 Contd.

BENISHANGUL-GUMUZ Region

| Crop Type | Chemicals | | | | | |
|------------------------------|------------|-------------|------------|-------------|------------|-------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 0 | 0 | 0 | 0 | 359 | 11 |
| Grain | 0.00 | 0.00 | 0.00 | 0.00 | 359.00 | 10.51 |
| Cereals | 0.00 | 0.00 | 0.00 | 0.00 | 324.00 | 10.16 |
| Teff | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - |
| Maize | 0.00 | 0.00 | 0.00 | 0.00 | 324.00 | 10.16 |
| Sorghum | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | 0.00 | 0.00 | 0.00 | 0.00 | 35.00 | 0.35 |
| Faba beans | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | 0.00 | 0.00 | 0.00 | 0.00 | 35.00 | 0.35 |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Neug | - | - | - | - | - | - |
| Linsced | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - |
| Vegetables | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | - | - | - | - | - | - |
| Ethiopian cabbage | - | - | - | - | - | - |
| Tomatoes | - | - | - | - | - | - |
| Green peppers | - | - | - | - | - | - |
| Red peppers | - | - | - | - | - | - |
| Swiss chard | - | - | - | - | - | - |
| Root crops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Beetroot | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - |
| Onion | - | - | - | - | - | - |
| Potatoes | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - |
| <i>Other Temporary crops</i> | - | - | - | - | - | - |
| Permanent crops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fruit crops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Avocados | - | - | - | - | - | - |
| Bananas | - | - | - | - | - | - |
| Guavas | - | - | - | - | - | - |
| Lemons | - | - | - | - | - | - |
| Mangoes | - | - | - | - | - | - |
| Oranges | - | - | - | - | - | - |
| Papayas | - | - | - | - | - | - |
| Pineapples | - | - | - | - | - | - |
| Cash Crops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chat | - | - | - | - | - | - |
| Coffee | - | - | - | - | - | - |
| Tea | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - |
| Sugar cane | - | - | - | - | - | - |
| Cotton | - | - | - | - | - | - |
| Other Permanent Crops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table 5.7 Contd.

S.N.N.P Region

| Crop Type | Chemicals | | | | | |
|------------------------------|------------------|-----------------|---------------|-------------|-----------------|---------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 40,372 | 3,066 | 2,083 | 17 | 12,051 | 417 |
| Grain | 1,756.25 | 47.75 | 658.00 | 4.18 | 7,255.54 | 236.96 |
| Cereals | 1,159.25 | 23.95 | 541.00 | 2.96 | 6,889.44 | 224.55 |
| Teff | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | 0.77 |
| Barley | - | - | - | - | - | - |
| Wheat | 0.00 | 0.00 | 431.00 | 2.66 | 807.00 | 11.80 |
| Maize | 1,159.25 | 23.95 | 110.00 | 0.30 | 5,927.44 | 211.43 |
| Sorghum | 0.00 | 0.00 | 0.00 | 0.00 | 55.00 | 0.55 |
| Finger millet | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | 513.00 | 23.72 | 117.00 | 1.22 | 366.10 | 12.41 |
| Faba beans | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | 103.00 | 2.04 | 117.00 | 1.22 | 366.10 | 12.41 |
| Chick-peas | 410.00 | 21.68 | 0.00 | 0.00 | 0.00 | 0.00 |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | 84.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| Neug | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | 84.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| Rape seed | - | - | - | - | - | - |
| Vegetables | 597.88 | 1,857.52 | 19.00 | 0.19 | 0.00 | 0.00 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | 183.43 | 1,749.33 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethiopian cabbage | - | - | - | - | - | - |
| Tomatoes | 90.65 | 9.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| Green peppers | 31.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| Red peppers | 292.80 | 98.24 | 19.00 | 0.19 | 0.00 | 0.00 |
| Swiss chard | - | - | - | - | - | - |
| Root crops | 24.87 | 0.41 | 1.00 | 0.01 | 0.00 | 0.00 |
| Beetroot | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - |
| Onion | 24.87 | 0.41 | 1.00 | 0.01 | 0.00 | 0.00 |
| Potatoes | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | 376.12 | 5.32 | 703.20 | 6.09 | 0.00 | 0.00 |
| Permanent crops | 37,640.88 | 1,155.10 | 703.20 | 6.09 | 4,795.21 | 180.13 |
| Fruit crops | 27.49 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| Avocados | - | - | - | - | - | - |
| Bananas | - | - | - | - | - | - |
| Guavas | - | - | - | - | - | - |
| Lemons | - | - | - | - | - | - |
| Mangoes | 0.49 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| Oranges | 27.00 | 1.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| Papayas | - | - | - | - | - | - |
| Pineapples | - | - | - | - | - | - |
| Cash Crops | 0.00 | 0.00 | 0.00 | 0.00 | 4,795.21 | 180.13 |
| Chat | - | - | - | - | - | - |
| Coffee | 0.00 | 0.00 | 0.00 | 0.00 | 4,795.21 | 180.13 |
| Tea | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - |
| Sugar cane | - | - | - | - | - | - |
| Cotton | 37,612.39 | 1,153.39 | 703.20 | 6.09 | 0.00 | 0.00 |
| Other Permanent Crops | 1.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 |

Table 5.10 Contd.

DIRE DAWA CITY ADMINISTRATION

| Crop Type | Chemicals | | | | | |
|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 0.43 | 0.12 | 2.32 | 0.09 | 0.00 | 0.00 |
| Grain | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cereals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Teff | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - |
| Maize | - | - | - | - | - | - |
| Sorghum | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Faba beans | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Neug | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - |
| Vegetables | 0.00 | 0.00 | 1.34 | 0.03 | 0.00 | 0.00 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | - | - | - | - | - | - |
| Ethiopian cabbage | - | - | - | - | - | - |
| Tomatoes | 0.00 | 0.00 | 1.12 | 0.02 | 0.00 | 0.00 |
| Green peppers | - | - | - | - | - | - |
| Red peppers | - | - | - | - | - | - |
| Swiss chard | 0.00 | 0.00 | 0.22 | 0.01 | 0.00 | 0.00 |
| Root crops | 0.00 | 0.00 | 0.34 | 0.01 | 0.00 | 0.00 |
| Beetroot | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - |
| Onion | 0.00 | 0.00 | 0.34 | 0.01 | 0.00 | 0.00 |
| Potatoes | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | 0.06 | 0.00 | 0.06 | 0.02 | 0.00 | 0.00 |
| Permanent crops | 0.37 | 0.12 | 0.46 | 0.02 | 0.00 | 0.00 |
| Fruit crops | 0.37 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| Avocados | - | - | - | - | - | - |
| Bananas | - | - | - | - | - | - |
| Guavas | - | - | - | - | - | - |
| Lemons | - | - | - | - | - | - |
| Mangoes | - | - | - | - | - | - |
| Oranges | 0.37 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| Papayas | - | - | - | - | - | - |
| Pineapples | - | - | - | - | - | - |
| Cash Crops | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chat | - | - | - | - | - | - |
| Coffee | - | - | - | - | - | - |
| Tea | - | - | - | - | - | - |
| Hops | - | - | - | - | - | - |
| Sugar cane | - | - | - | - | - | - |
| Cotton | - | - | - | - | - | - |
| Other Permanent Crops | 0.00 | 0.00 | 0.46 | 0.02 | 0.00 | 0.00 |

Table 6 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type:
For Commercial Farms ,2007/08 (2000 E.C.), Belg Season

Ethiopia

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|------------------------------|-----------------------------|---------------|---------------|---------------|---------------|---------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 1,612.48 | 485.91 | 597.21 | 490.74 | 520.97 | 712.43 | 618.97 |
| Grain | 954.89 | 292.47 | 281.04 | 344.17 | 279.34 | 413.72 | 580.83 |
| Cereals | 792.25 | 245.47 | 209.93 | 297.17 | 212.30 | 242.47 | 43.19 |
| Teff | 52 | 0.00 | 0.00 | 5.00 | 1.50 | 0.00 | 0.00 |
| Barley | 0.5 | - | - | - | - | - | - |
| Wheat | 3.5 | - | - | - | - | - | - |
| Maize | 706.25 | 245.47 | 209.93 | 292.17 | 210.80 | 212.47 | 41.69 |
| Sorghum | 0 | - | - | - | - | - | - |
| Finger millet | 30 | 0.00 | 0.00 | 0.00 | 0.00 | 30.00 | 1.50 |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | 14.39 | 19.00 | 28.70 | 19.00 | 10.50 | 0.00 | 0.00 |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | 1.5 | - | - | - | - | - | - |
| Haricot beans | 12.89 | 19.00 | 28.70 | 19.00 | 10.50 | 0.00 | 0.00 |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | 148.25 | 0.00 | 0.00 | 0.00 | 0.00 | 143.25 | 523.50 |
| Neug | - | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - |
| Sesame | 148.25 | 0.00 | 0.00 | 0.00 | 0.00 | 143.25 | 523.50 |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 398.31 | 96.95 | 130.65 | 60.31 | 76.34 | 190.35 | 10.01 |
| Lettuce | 11.75 | 6.80 | 2.78 | 0.00 | 0.00 | 0.05 | 0.00 |
| Head cabbage | 33.82 | 5.54 | 5.76 | 4.50 | 1.52 | 20.53 | 0.59 |
| Ethiopian cabbage | 58.71 | 3.10 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tomatoes | 140.89 | 45.23 | 103.23 | 30.23 | 54.18 | 88.80 | 1.62 |
| Green peppers | 86.59 | 4.50 | 3.75 | 4.50 | 4.25 | 50.89 | 7.12 |
| Red peppers | 63.8 | 26.78 | 11.38 | 21.08 | 16.39 | 27.34 | 0.63 |
| Swiss chard | 2.75 | 5.00 | 2.25 | 0.00 | 0.00 | 2.75 | 0.04 |
| Root crops | 201.45 | 68.49 | 143.11 | 58.26 | 108.75 | 80.36 | 13.99 |
| Beetroot | 2.85 | 0.34 | 0.75 | 0.21 | 0.25 | 2.34 | 0.39 |
| Carrot | 30.74 | 0.44 | 1.15 | 0.38 | 0.50 | 1.44 | 0.09 |
| Onion | 156.61 | 47.08 | 135.42 | 50.04 | 104.58 | 72.33 | 3.01 |
| Potatoes | 8.44 | 3.38 | 2.10 | 3.38 | 1.92 | 0.00 | 0.00 |
| Garlic | 0.5 | 4.25 | 0.75 | 4.25 | 1.50 | 4.25 | 10.50 |
| Sweet potatoes | 2.31 | 13.00 | 2.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Temporary crops | 57.83 | 28.00 | 42.41 | 28.00 | 56.54 | 28.00 | 14.14 |

Table 6.1 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type:
For Commercial Farms ,2007/08 (2000 E.C.), Belg Season

TIGRAY Region

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|------------------------------|-----------------------------|--------------|--------------|--------------|---------------|-------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 181.10 | 55.30 | 19.44 | 70.55 | 23.57 | 13.00 | 3.90 |
| Grain | 87.8 | 0.00 | 0.00 | 45.00 | 11.81 | 13.00 | 3.90 |
| Cereals | 86.3 | 0.00 | 0.00 | 45.00 | 11.81 | 13.00 | 3.90 |
| Teff | - | - | - | - | - | - | - |
| Barley | 0.5 | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - | - |
| Maize | 85.8 | 0.00 | 0.00 | 45.00 | 11.81 | 13.00 | 3.90 |
| Sorghum | - | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | 1.5 | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | 1.5 | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 77.3 | 42.30 | 16.50 | 15.55 | 7.76 | 0.00 | 0.00 |
| Lettuce | 8.7 | 4.30 | 1.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| Head cabbage | 4.25 | 3.50 | 2.01 | 4.25 | 1.27 | 0.00 | 0.00 |
| Ethiopian cabbage | 29 | - | - | - | - | - | - |
| Tomatoes | 0.5 | 15.00 | 8.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| Green peppers | 28.3 | - | - | - | - | - | - |
| Red peppers | 6.55 | 17.00 | 3.84 | 11.30 | 6.49 | 0.00 | 0.00 |
| Swiss chard | - | 2.50 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| Root crops | 16 | 13.00 | 2.94 | 10.00 | 4.00 | 0.00 | 0.00 |
| Bectroot | - | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - | - |
| Onion | 12 | 0.00 | 0.00 | 10.00 | 4.00 | 0.00 | 0.00 |
| Potatoes | 4 | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | - | - | - |

Table 6.2 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type:
For Commercial Farms ,2007/08 (2000 E.C.), Belg Season

Amhara Region

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|------------------------------|-----------------------------|-------------|-------------|-------------|---------------|-------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 262.92 | 10.30 | 9.50 | 6.00 | 5.00 | 66.00 | 7.61 |
| Grain | 140.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cereals | 127.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Teff | 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Barley | - | - | - | - | - | - | - |
| Wheat | 3.5 | - | - | - | - | - | - |
| Maize | 99.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sorghum | - | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | 12.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | 12.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 89.28 | 0.00 | 0.00 | 0.00 | 0.00 | 48.00 | 1.07 |
| Lettuce | 0.25 | - | - | - | - | - | - |
| Head cabbage | 1.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 |
| Ethiopian cabbage | 26.61 | - | - | - | - | - | - |
| Tomatoes | 41.95 | 0.00 | 0.00 | 0.00 | 0.00 | 34.00 | 1.02 |
| Green peppers | 0.15 | - | - | - | - | - | - |
| Red peppers | 18.43 | 0.00 | 0.00 | 0.00 | 0.00 | 13.00 | 0.04 |
| Swiss chard | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.01 |
| Root crops | 32.37 | 10.30 | 9.50 | 6.00 | 5.00 | 18.00 | 6.54 |
| Beetroot | 0.51 | - | - | - | - | - | - |
| Carrot | 29.3 | 6.30 | 9.00 | 2.00 | 4.00 | 14.00 | 0.04 |
| Onion | - | - | - | - | - | - | - |
| Potatoes | - | - | - | - | - | - | - |
| Garlic | 0.25 | 4.00 | 0.50 | 4.00 | 1.00 | 4.00 | 6.50 |
| Sweet potatoes | 2.31 | - | - | - | - | - | - |
| Other Temporary crops | 1 | - | - | - | - | - | - |

Table 6.3 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type:
For Commercial Farms ,2007/08 (2000 E.C.), Belg Season

OROMIA Region

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|------------------------------|-----------------------------|---------------|---------------|---------------|---------------|--------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 424.35 | 248.77 | 362.61 | 242.15 | 304.61 | 190.68 | 40.74 |
| Grain | 154.22 | 145.72 | 181.23 | 150.72 | 134.39 | 93.72 | 19.81 |
| Cereals | 154.22 | 126.72 | 152.53 | 131.72 | 123.89 | 93.72 | 19.81 |
| Teff | 28 | 0.00 | 0.00 | 5.00 | 1.50 | 0.00 | 0.00 |
| Barley | - | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - | - |
| Maize | 126.22 | 126.72 | 152.53 | 126.72 | 122.39 | 93.72 | 19.81 |
| Sorghum | - | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 93.56 | 33.16 | 44.60 | 24.47 | 37.03 | 30.19 | 0.25 |
| Lettuce | 2.8 | 2.50 | 1.50 | 0.00 | 0.00 | 0.05 | 0.00 |
| Head cabbage | 17.3 | 0.84 | 1.75 | 0.25 | 0.25 | 9.15 | 0.11 |
| Ethiopian cabbage | 3.1 | 3.10 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tomatoes | 61.88 | 18.74 | 35.61 | 18.74 | 31.18 | 18.24 | 0.09 |
| Green peppers | 1.5 | 1.00 | 0.50 | 1.00 | 1.00 | 0.25 | 0.02 |
| Red peppers | 4.48 | 4.48 | 2.24 | 4.48 | 4.60 | 0.00 | 0.00 |
| Swiss chard | 2.5 | 2.50 | 1.50 | 0.00 | 0.00 | 2.50 | 0.03 |
| Root crops | 129.49 | 41.89 | 94.37 | 38.96 | 76.65 | 38.77 | 6.54 |
| Beetroot | 2.34 | 0.34 | 0.75 | 0.21 | 0.25 | 2.34 | 0.39 |
| Carrot | 1.44 | 0.44 | 1.15 | 0.38 | 0.50 | 1.44 | 0.09 |
| Onion | 121.02 | 37.48 | 90.12 | 34.74 | 73.48 | 34.74 | 2.06 |
| Potatoes | 4.44 | 3.38 | 2.10 | 3.38 | 1.92 | 0.00 | 0.00 |
| Garlic | 0.25 | 0.25 | 0.25 | 0.25 | 0.50 | 0.25 | 4.00 |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | 47.08 | 28.00 | 42.41 | 28.00 | 56.54 | 28.00 | 14.14 |

Table 6.4 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type:
For Commercial Farms ,2007/08 (2000 E.C.), Belg Season

SOMALI REGION

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|------------------------------|-----------------------------|---------------|--------------|--------------|---------------|-------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 40.79 | 37.54 | 136.75 | 27.04 | 69.65 | 28.04 | 0.41 |
| Grain | 12.75 | 12.75 | 30.90 | 3.45 | 15.00 | 0.00 | 0.00 |
| Cereals | 12.75 | 12.75 | 30.90 | 3.45 | 15.00 | 0.00 | 0.00 |
| Teff | - | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - | - |
| Maize | 12.75 | 12.75 | 30.90 | 3.45 | 15.00 | 0.00 | 0.00 |
| Sorghum | - | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 21.49 | 21.49 | 69.55 | 20.29 | 31.55 | 21.49 | 0.12 |
| Lettuce | - | - | - | - | - | - | - |
| Head cabbage | 1.2 | 1.20 | 2.00 | 0.00 | 0.00 | 1.20 | 0.01 |
| Ethiopian cabbage | - | - | - | - | - | - | - |
| Tomatoes | 11.49 | 11.49 | 59.00 | 11.49 | 23.00 | 11.49 | 0.03 |
| Green peppers | 3.5 | 3.50 | 3.25 | 3.50 | 3.25 | 3.50 | 0.03 |
| Red peppers | 5.3 | 5.30 | 5.30 | 5.30 | 5.30 | 5.30 | 0.05 |
| Swiss chard | - | - | - | - | - | - | - |
| Root crops | 6.55 | 3.30 | 36.30 | 3.30 | 23.10 | 6.55 | 0.29 |
| Beetroot | - | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - | - |
| Onion | 6.55 | 3.30 | 36.30 | 3.30 | 23.10 | 6.55 | 0.29 |
| Potatoes | - | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - | - |
| 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 ,2007/08 (2000 E.C.), Belg Season**

S.N.N.P Region

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|------------------------------|-----------------------------|--------------|---------------|--------------|---------------|---------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 686.92 | 106.00 | 26.50 | 108.60 | 55.60 | 370.55 | 548.96 |
| Grain | 545.45 | 106.00 | 26.50 | 108.60 | 55.60 | 264.59 | 539.78 |
| Cereals | 397.2 | 106.00 | 26.50 | 108.60 | 55.60 | 121.34 | 16.28 |
| Teff | - | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - | - |
| Maize | 367.2 | 106.00 | 26.50 | 108.60 | 55.60 | 91.34 | 14.78 |
| Sorghum | - | - | - | - | - | - | - |
| Finger millet | 30 | 0.00 | 0.00 | 0.00 | 0.00 | 30.00 | 1.50 |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | 148.25 | 0.00 | 0.00 | 0.00 | 0.00 | 143.25 | 523.50 |
| Neug | - | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - |
| Sesame | 148.25 | 0.00 | 0.00 | 0.00 | 0.00 | 143.25 | 523.50 |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 114.93 | 0.00 | 0.00 | 0.00 | 0.00 | 89.17 | 8.56 |
| Lettuce | - | - | - | - | - | - | - |
| Head cabbage | 9.43 | 0.00 | 0.00 | 0.00 | 0.00 | 9.43 | 0.47 |
| Ethiopian cabbage | - | - | - | - | - | - | - |
| Tomatoes | 23.57 | 0.00 | 0.00 | 0.00 | 0.00 | 23.57 | 0.47 |
| Green peppers | 52.89 | 0.00 | 0.00 | 0.00 | 0.00 | 47.14 | 7.07 |
| Red peppers | 29.04 | 0.00 | 0.00 | 0.00 | 0.00 | 9.04 | 0.54 |
| Swiss chard | - | - | - | - | - | - | - |
| Root crops | 16.79 | 0.00 | 0.00 | 0.00 | 0.00 | 16.79 | 0.62 |
| Bectroot | - | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - | - |
| Onion | 16.79 | 0.00 | 0.00 | 0.00 | 0.00 | 16.79 | 0.62 |
| Potatoes | - | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | 9.75 | - | - | - | - | - | - |

Table 6.6 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type:
For Commercial Farms ,2007/08 (2000 E.C.), Belg Season

Harari Region

| Crop Type | Total Cropland Area in Ha | Chemical Fertilizer Applied | | | | Improved Seed | |
|------------------------------|------------------------------|-----------------------------|-------------|-------------|-------------|---------------|-------------|
| | | UREA | | DAP | | Area in Ha | Amnt in Qts |
| | | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | | |
| All Crops | 16.40 | 0.00 | 0.00 | 0.00 | 0.00 | 1.75 | 0.01 |
| Grain | 14.4 | 0.00 | 0.00 | 8.40 | 6.00 | 14.40 | 3.20 |
| Cereals | 14.4 | 0.00 | 0.00 | 8.40 | 6.00 | 14.40 | 3.20 |
| Teff | - | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - | - |
| Maize | 14.4 | 0.00 | 0.00 | 8.40 | 6.00 | 14.40 | 3.20 |
| Sorghum | - | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - | - |
| Vegetables | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 0.01 |
| Lettuce | - | - | - | - | - | - | - |
| Head cabbage | - | - | - | - | - | - | - |
| Ethiopian cabbage | - | - | - | - | - | - | - |
| Tomatoes | 1.5 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 0.01 |
| Green peppers | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Red peppers | - | - | - | - | - | - | - |
| Swiss chard | - | - | - | - | - | - | - |
| Root crops | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 |
| Beetroot | - | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - | - |
| Onion | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 |
| Potatoes | - | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | - | - | - |

Ethiopia **Table 6 Contd**
Belg Season

| Crop Type | Chemicals | | | | | |
|------------------------------|---------------|--------------|---------------|-------------|--------------|-------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 602.27 | 14.49 | 237.75 | 5.27 | 68.40 | 0.45 |
| Grain | 195.09 | 1.88 | 64.32 | 0.30 | 66.40 | 0.35 |
| Cereals | 157.09 | 1.84 | 26.32 | 0.13 | 66.40 | 0.35 |
| Teff | 0.00 | 0 | 0.00 | 0 | 10.00 | 0.09 |
| Barley | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - |
| Maize | 157.09 | 1.84 | 26.32 | 0.13 | 56.40 | 0.26 |
| Sorghum | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | 38.00 | 0.04 | 38.00 | 0.17 | 0.00 | 0 |
| Faba beans | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | 38.00 | 0.04 | 38.00 | 0.17 | 0.00 | 0 |
| Chick-peas | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - |
| Vegetables | 219.34 | 8.08 | 54.93 | 2.42 | 0.00 | 0 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | 19.77 | 0.71 | 1.00 | 0.03 | 0.00 | 0 |
| Ethiopian cabbage | 0.35 | 0.04 | 0.00 | 0 | 0.00 | 0 |
| Tomatoes | 75.01 | 5.11 | 44.98 | 2.22 | 0.00 | 0 |
| Green peppers | 49.64 | 0.54 | 0.00 | 0 | 0.00 | 0 |
| Red peppers | 74.32 | 1.66 | 8.95 | 0.17 | 0.00 | 0 |
| Swiss chard | 0.25 | 0.01 | 0.00 | 0 | 0.00 | 0 |
| Root crops | 75.84 | 4.49 | 118.50 | 2.55 | 2.00 | 0.1 |
| Beetroot | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - |
| Onion | 71.59 | 4.46 | 113.25 | 2.51 | 2.00 | 0.1 |
| Potatoes | 4.00 | 0.02 | 1.00 | 0.02 | 0.00 | 0 |
| Garlic | 0.25 | 0.01 | 4.25 | 0.02 | 0.00 | 0 |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | 112.00 | 0.04 | 0.00 | 0 | 0.00 | 0 |

Table 6.2 Contd

AMHARA Region

| Crop Type | Chemicals | | | | | |
|------------------------------|------------|-------------|------------|-------------|------------|-------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 9.75 | 0.24 | 90.40 | 0.81 | 5.00 | 0.14 |
| Grain | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 0.04 |
| Cereals | 0.00 | 0 | 0.00 | 0 | 3.00 | 0.04 |
| Teff | 0.00 | 0 | 0.00 | 0 | 3.00 | 0.04 |
| Barley | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - |
| Maize | - | - | - | - | - | - |
| Sorghum | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - |
| Vegetables | 3.75 | 0.08 | 3.00 | 0.06 | 0.00 | 0 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | 0.50 | 0.01 | 1.00 | 0.03 | 0.00 | 0 |
| Ethiopian cabbage | - | - | - | - | - | - |
| Tomatoes | 1.00 | 0.02 | 2.00 | 0.03 | 0.00 | 0 |
| Green peppers | - | - | - | - | - | - |
| Red peppers | 2.00 | 0.04 | 0.00 | 0 | 0.00 | 0 |
| Swiss chard | 0.25 | 0.01 | 0.00 | 0 | 0.00 | 0 |
| Root crops | 6.00 | 0.16 | 87.40 | 0.75 | 2.00 | 0.1 |
| Beetroot | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - |
| Onion | 6.00 | 0.16 | 83.40 | 0.74 | 2.00 | 0.1 |
| Potatoes | - | - | - | - | - | - |
| Garlic | 0.00 | 0 | 4.00 | 0.01 | 0.00 | 0 |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | - | - |

Table 6.3 Contd

| Crop Type | Chemicals | | | | | |
|------------------------------|---------------|-------------|---------------|-------------|--------------|-------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 386.63 | 9.81 | 121.02 | 3.47 | 63.40 | 0.31 |
| Grain | 167.04 | 1.57 | 64.32 | 0.30 | 63.40 | 0.31 |
| Cereals | 129.04 | 1.53 | 26.32 | 0.13 | 63.40 | 0.31 |
| Teff | 0.00 | 0 | 0.00 | 0 | 7.00 | 0.05 |
| Barley | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - |
| Maize | 129.04 | 1.53 | 26.32 | 0.13 | 56.40 | 0.26 |
| Sorghum | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | 38.00 | 0.04 | 38.00 | 0.17 | 0.00 | 0 |
| Faba beans | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | 38.00 | 0.04 | 38.00 | 0.17 | 0.00 | 0 |
| Chick-peas | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - |
| Vegetables | 47.60 | 4.18 | 35.45 | 1.7 | 0.00 | 0 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | 9.84 | 0.23 | 0.00 | 0 | 0.00 | 0 |
| Ethiopian cabbage | 0.35 | 0.04 | 0.00 | 0 | 0.00 | 0 |
| Tomatoes | 25.96 | 3.78 | 26.50 | 1.53 | 0.00 | 0 |
| Green peppers | 2.50 | 0.07 | 0.00 | 0 | 0.00 | 0 |
| Red peppers | 8.95 | 0.06 | 8.95 | 0.17 | 0.00 | 0 |
| Swiss chard | - | - | - | - | - | - |
| Root crops | 59.99 | 4.02 | 21.25 | 1.47 | 0.00 | 0 |
| Beetroot | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - |
| Onion | 55.74 | 3.99 | 20.00 | 1.44 | 0.00 | 0 |
| Potatoes | 4.00 | 0.02 | 1.00 | 0.02 | 0.00 | 0 |
| Garlic | 0.25 | 0.01 | 0.25 | 0.01 | 0.00 | 0 |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | 112.00 | 0.04 | 0.00 | 0 | 0.00 | 0 |

Table 6.4 Contd.

Somali Region

| Crop Type | Chemicals | | | | | |
|------------------------------|--------------|-------------|--------------|-------------|-------------|-------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 60.18 | 0.98 | 26.33 | 0.99 | 0.00 | 0.00 |
| Grain | 22.05 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cereals | 22.05 | 0.29 | 0.00 | 0 | 0.00 | 0 |
| Teff | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - |
| Maize | 22.05 | 0.29 | 0.00 | 0 | 0.00 | 0 |
| Sorghum | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - |
| Vegetables | 28.28 | 0.38 | 16.48 | 0.66 | 0.00 | 0 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | - | - | - | - | - | - |
| Ethiopian cabbage | - | - | - | - | - | - |
| Tomatoes | 22.98 | 0.34 | 16.48 | 0.66 | 0.00 | 0 |
| Green peppers | - | - | - | - | - | - |
| Red peppers | 5.30 | 0.04 | 0.00 | 0 | 0.00 | 0 |
| Swiss chard | - | - | - | - | - | - |
| Root crops | 9.85 | 0.31 | 9.85 | 0.33 | 0.00 | 0 |
| Beetroot | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - |
| Onion | 9.85 | 0.31 | 9.85 | 0.33 | 0.00 | 0 |
| Potatoes | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | - | - |

Table 6.5 Contd.

S.N.N.P Region

| Crop Type | Chemicals | | | | | |
|------------------------------|------------|-------------|------------|-------------|------------|-------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 138.21 | 3.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grain | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cereals | - | - | - | - | - | - |
| Teff | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - |
| Maize | - | - | - | - | - | - |
| Sorghum | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - |
| Vegetables | 138.21 | 3.41 | 0.00 | 0 | 0.00 | 0 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | 9.43 | 0.47 | 0.00 | 0 | 0.00 | 0 |
| Ethiopian cabbage | - | - | - | - | - | - |
| Tomatoes | 23.57 | 0.94 | 0.00 | 0 | 0.00 | 0 |
| Green peppers | 47.14 | 0.47 | 0.00 | 0 | 0.00 | 0 |
| Red peppers | 58.07 | 1.52 | 0.00 | 0 | - | 0 |
| Swiss chard | - | - | - | - | - | - |
| Root crops | - | - | - | - | - | - |
| Beetroot | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - |
| Onion | - | - | - | - | - | - |
| Potatoes | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | - | - |

Table 6.6 Contd.

Harari Region

| Crop Type | Chemicals | | | | | |
|------------------------------|------------|-------------|------------|-------------|------------|-------------|
| | Pesticide | | Fungicides | | Herbicides | |
| | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts | Area in Ha | Amnt in Qts |
| All Crops | 7.50 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grain | 6.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cereals | 6.00 | 0.02 | 0.00 | 0 | 0.00 | 0 |
| Teff | - | - | - | - | - | - |
| Barley | - | - | - | - | - | - |
| Wheat | - | - | - | - | - | - |
| Maize | 6.00 | 0.02 | 0.00 | 0 | 0.00 | 0 |
| Sorghum | - | - | - | - | - | - |
| Finger millet | - | - | - | - | - | - |
| Oats / 'Aja' | - | - | - | - | - | - |
| Rice | - | - | - | - | - | - |
| Pulses | - | - | - | - | - | - |
| Faba beans | - | - | - | - | - | - |
| Field peas | - | - | - | - | - | - |
| Haricot beans | - | - | - | - | - | - |
| Chick-peas | - | - | - | - | - | - |
| Lentils | - | - | - | - | - | - |
| Grass peas | - | - | - | - | - | - |
| Soya beans | - | - | - | - | - | - |
| Fenugreek | - | - | - | - | - | - |
| Oilseeds | - | - | - | - | - | - |
| Neug | - | - | - | - | - | - |
| Linseed | - | - | - | - | - | - |
| Groundnuts | - | - | - | - | - | - |
| Safflower | - | - | - | - | - | - |
| Sesame | - | - | - | - | - | - |
| Rape seed | - | - | - | - | - | - |
| Vegetables | 1.50 | 0.03 | 0.00 | 0 | 0.00 | 0 |
| Lettuce | - | - | - | - | - | - |
| Head cabbage | - | - | - | - | - | - |
| Ethiopian cabbage | - | - | - | - | - | - |
| Tomatoes | 1.50 | 0.03 | 0.00 | 0 | 0.00 | 0 |
| Green peppers | - | - | - | - | - | - |
| Red peppers | - | - | - | - | - | - |
| Swiss chard | - | - | - | - | - | - |
| Root crops | - | - | - | - | - | - |
| Beetroot | - | - | - | - | - | - |
| Carrot | - | - | - | - | - | - |
| Onion | - | - | - | - | - | - |
| Potatoes | - | - | - | - | - | - |
| Garlic | - | - | - | - | - | - |
| Sweet potatoes | - | - | - | - | - | - |
| Other Temporary crops | - | - | - | - | - | - |

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

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

4. Estimating coefficient of variation

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

$$CV(\hat{Y}_h) = \sqrt{\frac{\text{var}(\hat{Y}_h)}{\hat{Y}_h^2}} \times 100\%$$

Appendix IV - Questionnaires

Central Statistical Agency
Large and Medium Scale Commercial Farm Sample Survey
2007/08 (2000 E.C)

CF-Form 1/2000

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 2007/08 (2000 E.C.)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 |
|--------|-------------|------|--------------|-------------|----------------|------------------------------|----------------------|------|-----------------------------|
| Sr. No | Crop Type | Code | Cropped Area | Production | Yield (Qts/Ha) | Crop Damage Yes=1 No=2 | Is there Crop Damage | | |
| | | | In Hectare | In Quintals | | | 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 2007/08 (2000 E.C.)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 |
|--------|----------------|------|--------------|-------------|----------------|------------------------------|----------------------|------|-----------------------------|
| Sr. No | Crop Type | Code | Cropped Area | Production | Yield (Qts/Ha) | Crop Damage Yes=1 No=2 | Is there Crop Damage | | |
| | | | In Hectare | In Quintals | | | 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 | | | | | | | | |

Appendix IV - Questionnaires

Appendix III

Central Statistical Agency
 Large and Medium Scale Commercial Farm Sample Survey
 2007/08 (2000 E.C)

Part 1. Identification Particulars

CF-Form 1/2000

| 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 2007/08 (2000 E.C.)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 |
|--------|------------|------|--------------|-------------|----------------|------------------------------|----------------------|------|-----------------------------|
| Sr. No | Crop Type | Code | Cropped Area | Production | Yield (Qts/Ha) | Crop Damage Yes=1 No=2 | Is there Crop Damage | | |
| | | | In Hectare | In Quintals | | | 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 | | | | | | | |

Part 2 :- Crop land area and Quantity production of Major crops 2007/08 (2000 E.C.)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | 9 |
|--------|----------------|------|--------------|-------------|----------------|------------------------------|----------------------|------|--|-----------------------------|
| Sr. No | Crop Type | Code | Cropped Area | Production | Yield (Qts/Ha) | Crop Damage Yes=1 No=2 | Is there Crop Damage | | | Extent of Damage in Percent |
| | | | In Hectare | In Quintals | | | If Yes Reason | Code | | |
| 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 | | | | | | | | | |

Area Volume Time



1. $Area = 10 \times 10 = 100$
 2. $Volume = 100 \times 10 = 1000$
 3. $Time = 1000 \div 100 = 10$

Area of rectangle = 100

Volume of cube = 1000

Time taken to fill the tank = 10