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FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA
CENTRAL STATISTICAL AGENCY

LARGE AND MEDIUM SCALE COMMERCIAL
FARMS SAMPLE SURVEY

2008/09(2001 E.C)

RESULTS AT COUNTRY AND
REGIONAL LEVELS

VOLUME VIII

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

ADDIS ABABA
OCTOBER, 2009

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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 2008/09 (2001 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 2008/09 (2001 E.C.) commercial farms sample survey.

2. Objectives of the 2008/09 (2001 E.C.) Large and Medium Scale Commercial Farms Survey

The major objectives of the 2008/09 (2001 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 1284 farms were planned to be covered. But the survey succeeded to cover 1068 farms.

Considering the cost and manageability of field work a sample of 1284 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. Before the sample selection was done, the cut off point for the farms was decided. Separate cut off point for farms involved in crop production and those involved in livestock was set. Farms having total area/number of livestock above the cut off point are selected with certainty where as farms having area/ number of livestock below the cut off point are sampled using probability proportional to size, size being the total area / number of livestock of the farms. For farms involved in livestock simple random sampling technique is used for selection.

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

Table 1 Number of planed and covered farms

Region	Number of	
	Planned	Covered
Tigray	355	264
Affar	73	68
Amhara	330	287
Oromia	271	244
Somalie	23	14
Benshangul-Gumuz	49	37
SNNPR	150	131
Gambella	22	17
Harari	-	-
Addis Ababa	8	3
DireDawa	3	3
Total	1284	1068

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 20008/09 (2001 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 2008/09 (2001 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 2008/2009 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 40 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 31 editors about 5 working days.

4.2 Data Entry, Cleaning and Tabulation

About 38 data encoders were assigned to undertake the data entry activity of the 2008/09 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 CESPPO.

The data entry exercise was carried out using 38 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 38 entry clerks around 10 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 CPro and IMPS software's. Like IMPS Software, CPro 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 Yeakitit(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 2008/09 (2001 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 2008/09 (2001 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 2008/09 (2001 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.

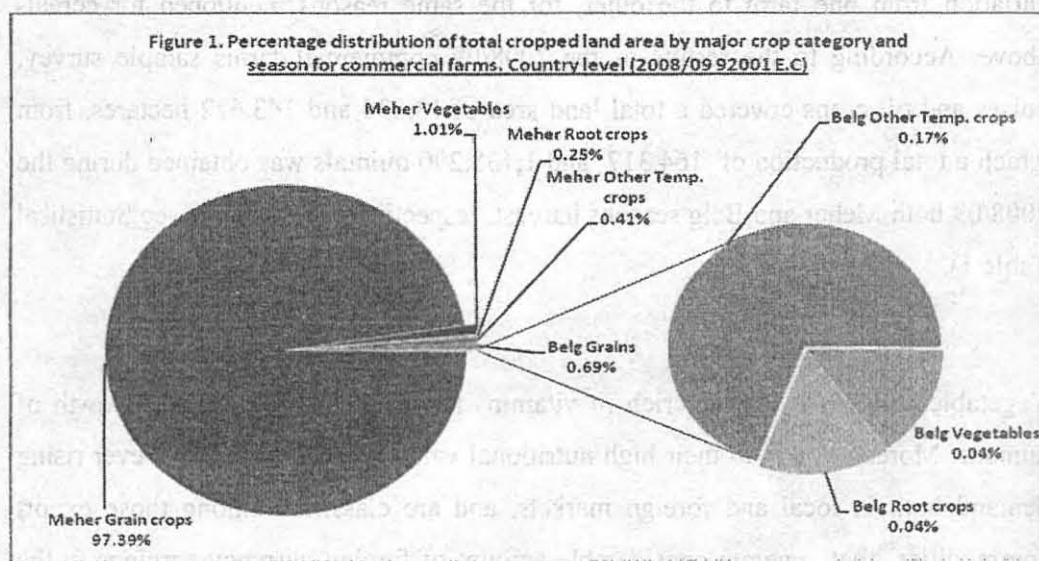
In Ethiopia, therefore, the production of grain crops is the most widely spread crop production activity both in terms of the extent of cropped land area and volume of production when compared with crops such as vegetable and root crops.

Summary Table 1 Estimates of total cropland area by major crop category and season for commercial farms: National level,2008/-09 (2001 E.C.)

Major Crop Category	Total Cropland area in Hectare			% Share from Both Seasons	
	Meher	Belg	Both	Meher	Belg
Grain	339,693	2,413	342,106	99.29	0.71
Vegetables	3,534	125	3,659	96.58	3.42
Root crops	884	133	1,017	86.92	13.08
Other Temp. crops	1,414	586	2,000	70.70	29.30
All Temporary Crops	345525	3257	348782	99.07	0.93

According to the results of the 2008/09 (2001 E.C) Large and Medium scale Commercial Farms sample survey, the total grain crops covered area was found to be **342,106** hectares (98.09 % of the total country level temporary crops covered land area), from which a total of **5,244,888** quintals of production, (91.95 % of the total country level production of temporary crops) was obtained during 2008/09 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 2008/09 Meher season, contributed the lion share. Accordingly Meher season accounted for 99.29 % (i.e. 339,693 hectares) of the total both seasons temporary crops covered total land area (see summary Table 1 and figure.1) and 99.18% (5,201,721 quintals) from the total both seasons 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 2008/09 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 185,450 hectares of land area, from which a production of 3,942,281 quintals was obtained during 2008/09 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 2008/09 commercial farms sample survey, pulses and oil crops covered a total land area of 13,034 and 143,622 hectares, from which a total production of 164,317 and 1,138,290 quintals was obtained during the 2008/09 both Meher and Belg seasons harvest, respectively (For details see Statistical Table 1).

b, Vegetables

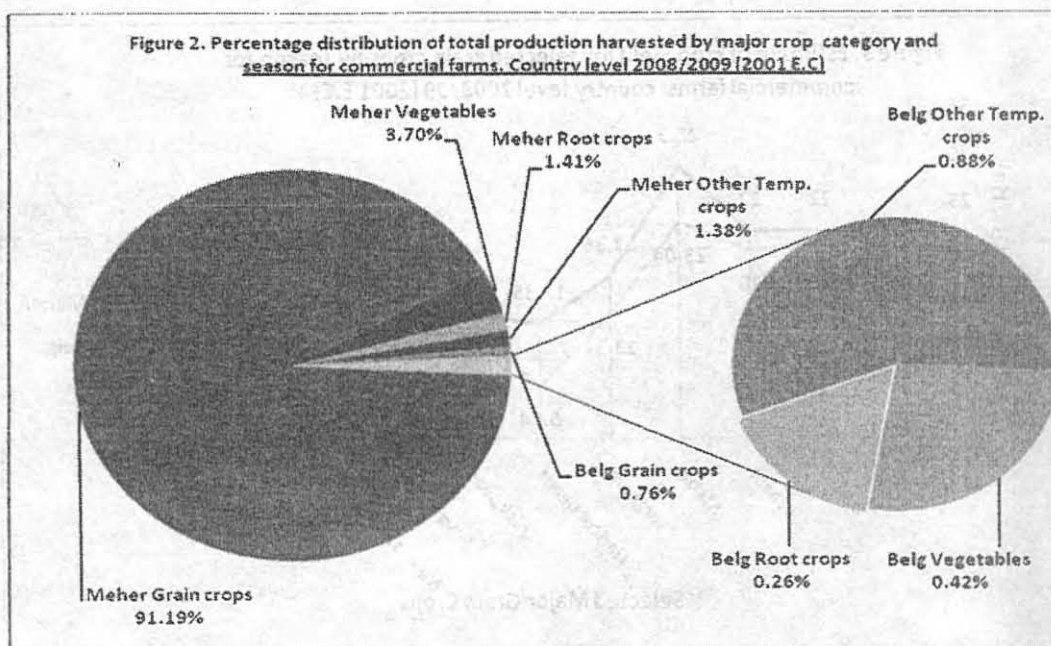
Vegetables are crops that are rich in vitamins necessary for the healthy growth of humans. Moreover, due to their high nutritional value vegetables do have ever rising demand both in local and foreign markets, and are classified among those export commodities' that generate considerable amount of foreign 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 3,659 hectares of land from which a total volume of 235,203 quintals was obtained in 2008/09 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, 2008/-09 (2001 E.C.)

Major Crop Category	Total Production in Quintals			% Share from Both Seasons Total	
	Season			Meher	Belg
Grain	5,201,721	43,167	5,244,888	99.18	0.82
Vegetables	211,229	23,973	235,203	89.81	10.19
Root crops	80,384	14,710	95,093	84.53	15.47
Other Temp. crops	78,724	50,233	128,957	61.05	38.95
All Temporary Crops	5,572,058	132,083	5,704,141	97.68	2.32

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

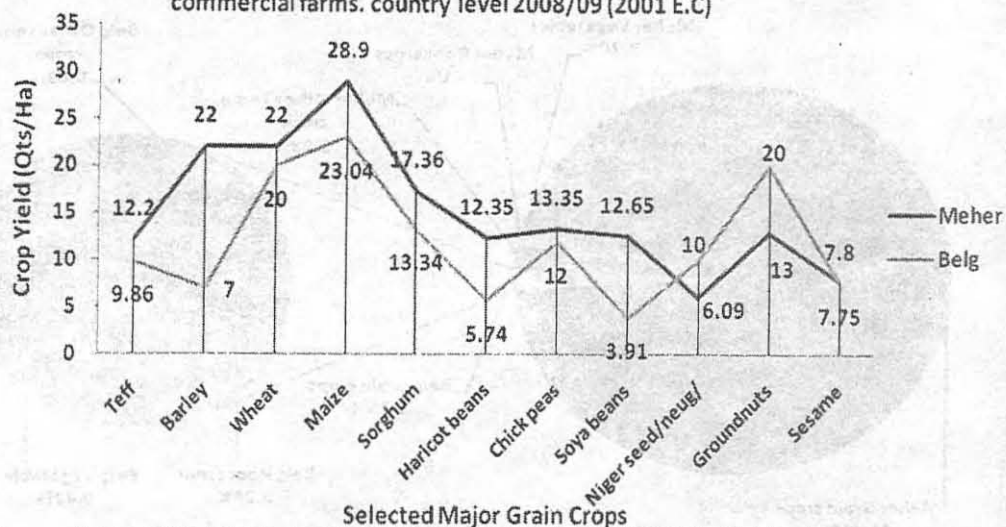
Like that of grain crops, the contribution of root crops such as potatoes and sweet potatoes...etc. for human consumption as food crops cannot be over emphasized. The majority of the population in Southern and South Western Ethiopia mainly depends on root crops for their daily food consumption. In addition 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 1,017 hectares, from which a total production of 95,093 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 2008/09 crop production year.

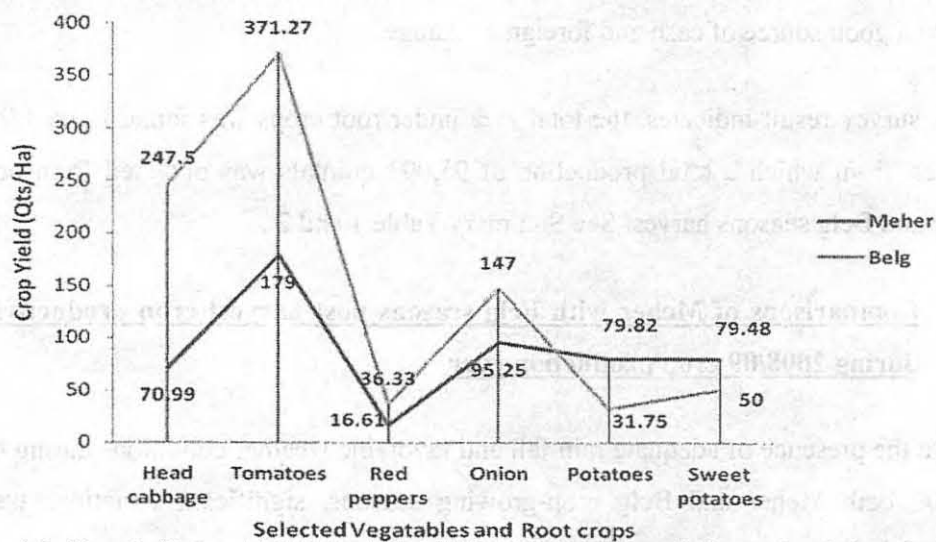
Despite the presence of adequate rain fall and favorable weather conditions during the 2008/09 both Meher and Belg crop-growing seasons, significant variations were observed in crop productivities attained in each of the respective seasons, that might be contributed by the seed variety and amount of modern inputs used i.e. due to difference in input application rate practiced.

Figure 3. Estimate of crop yield for selected grain crops by season for commercial farms, country level 2008/09 (2001 E.C)



For instance, looking at the 2008/09 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 2008/09 Meher season was nearly twofold higher for some grain crops as compared to the productivity reported for the same crops during the Belg season harvest of the same year while it is vice versa for vegetables and root crops (For details see Figure 3 and 4).

Figure 4. Estimate of crop yield for selected vegetables and Root crops by season for commercial farms, country level 2008/09(2001E.C)



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 125,764 hectares with a total production of 27,489,358 quintals obtained from commercial farms during the year 2008/09 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 3. Estimates of total production harvested by major crop category and season for commercial farms: National level, 2008/-09 (2001 E.C.)

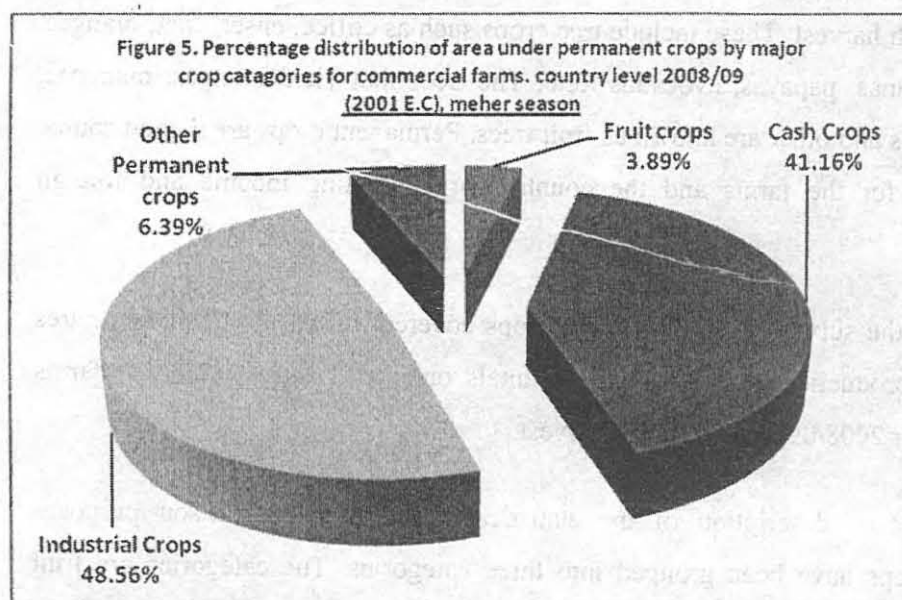
Major Crop Categories	Total			
	Crop land Area		Production	
	in Hectare	%	in Quintals	%
Fruit crops	4,886	3.89	422,854	1.54
Cash Crops	51,767	41.16	472,001	1.72
Industrial Crops	61,071	48.56	26,259,296	95.53
Other Permanent crops	8,040	6.39	335,207	1.22
All Permanent crops	125764	100	27489358.2	100

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 4,886 hectares (3.89% of the total crop land area under permanent crops), with about 422,854 quintals of production (1.54% of the total permanent crops production), during the 2008/089

Meher season harvest (for the details see summary table 3, figure 5 & 6). Bananas, oranges and mangoes shared the highest area and production fruit crops (See Table 3.4)

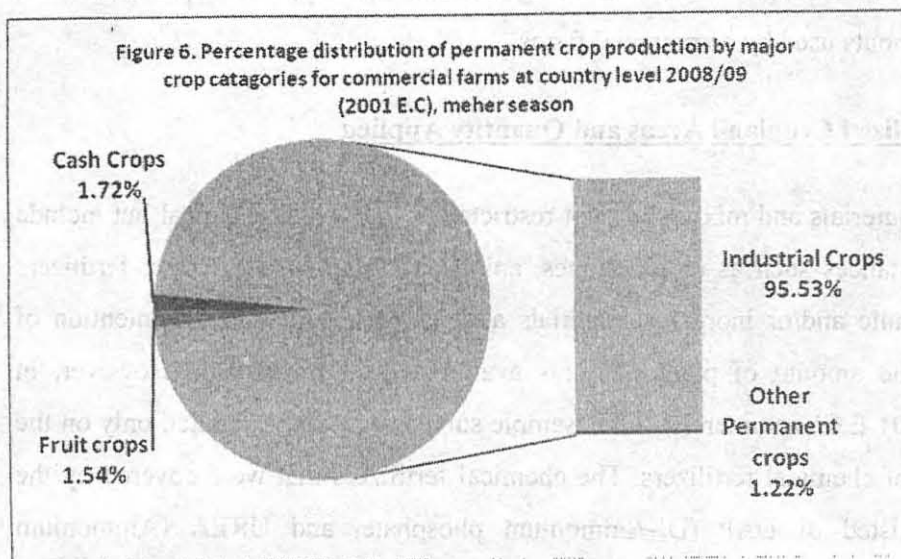


b, Cash/Stimulant crops

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 3 cash/stimulant crops were grown on an estimated total land area of 51,767 hectares, , with a total production estimated at 472,001 quintals of production, contributing about 41.16% and 1.72 % to the total cropland area and production of permanent, respectively (For details see Summary Table 3).

c, Industrial Crops

Industrial crops refer to crops commonly used as raw material for domestic agro-industries, which include crops such as cotton and sugarcane. Industrial crops grown in commercial farms covered a total land area of 61,071 hectares (48.56% of the total area under permanent crops), with a total production of 26,259,296 quintals (95.53 % of the total permanent crops production), during the 2008/0



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 2008/09 (2001 E.C) commercial farms sample survey, basic data on the agricultural inputs and practices were collected, summarized and the result are presented in this report.

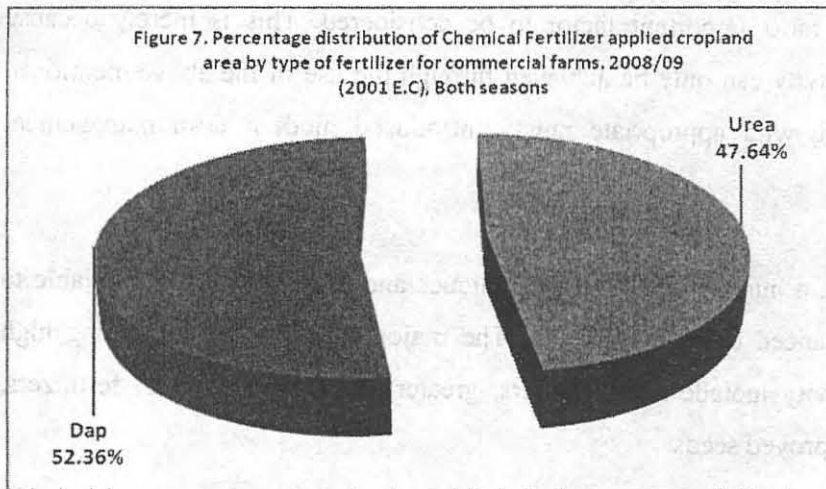
3.4.2 Cropland Area under Different Agricultural Input and Farm Management Practices.

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

a. Fertilized Cropland Areas and Quantity Applied

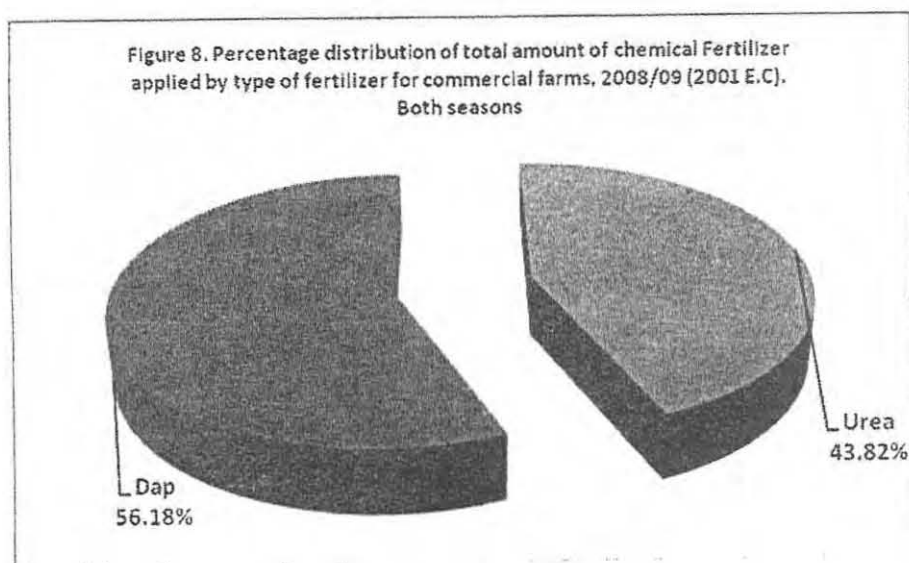
Fertilizing materials and mixture are not restricted to in organic chemical but include organic substances such as crop residues, animal dung ...etc. Therefore, fertilizers refer to organic and/or inorganic materials added to the soil with the intention of increasing the amount of plant nutrients available for crop growth. However, in 2008/09 (2001 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 129,538 and 142,347 hectares, which accounted for 27.49% and 30.20% of the total cropland area reported for Commercial farms at country level, during the 2008/09 both Meher and Belg seasons harvest. (For details see Table 4)



b. Quantity of Chemical Fertilizer Applied

According to the results of the survey, the total quantity of chemical fertilizers applied during 2008/09 for commercial farms was found to be 223,663 quintals during Both Meher and Belg seasons. Out of which the share of DAP was 56.18% , while the remaining 43.82% share was found to be the contribution of UREA (For details see Table 4 and figure 8).

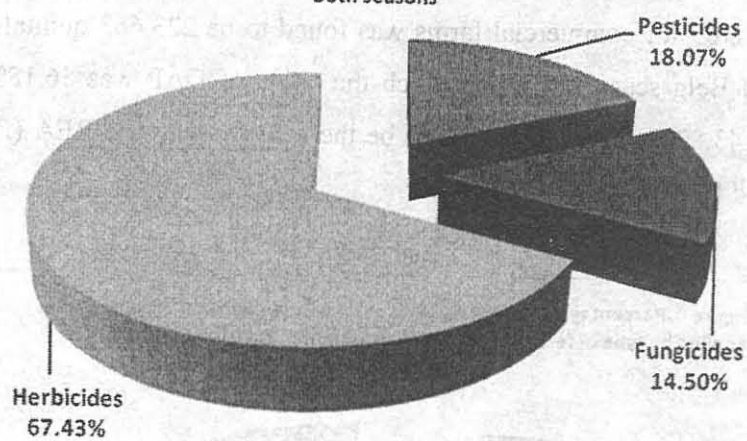


c. Cropland Areas Treated with Chemicals.

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 4 the total cropland area treated with pesticides, fungicides and herbicides in commercial farms was found to be 65,547: 52,627 and 244,650 hectares of cropland area, respectively (For details see Table 4 and Figure 9).

Figure 9. Percentage distribution of chemical treated cropland area by type of chemicals used for commercial farms, 2008/09 (2001 E.C), Both seasons



**National and Regional Statistical Tables
On Cropped Area and Production**

Table 1 Estimates of Cropland Area and Production of Major Crops for Commercial Farms, 2008/09 (2001 E.C.), Both Seasons

Crop Types	Total Cropped land area in Hectare						Total Production in Quintals					
	Seasons			Seasons			Seasons			Seasons		
	Meher(Main)		Belg		Both Seasons		Meher(Main)		Belg		Both Seasons	
	Hectare	%	Hectare	%	Hectare	%	Quintals	%	Yield	Quintals	%	Yield
Total	345,525		3,257		348,782		3.3E+07			132,083		33,193,498.89
Grain crops	339,693	100	2,413	100	342,106	100	5201721	100		43,167	100	5,244,887.81
Cereals	183,612	54.05	1,838	76.17	185,450	54.21	3903248	75.04		39,033	90.42	3,942,280.79
Teff	2,964	0.87	102	4.23	3,066	0.90	36160.8	0.70	12.2	1,006	2.33	37,166.52
Barley	6,042	1.78	1	0.04	6,043	1.77	132924	2.56	22	7	0.02	132,931.00
Wheat	42,930	12.64	19	0.79	42,949	12.55	944460	18.16	22	390	0.90	944,850.00
Maize	43,624	12.84	1,572	65.15	45,196	13.21	1260734	24.24	28.9	36,219	83.90	1,296,952.48
Sorghum	87,226	25.68	79	3.27	87,305	25.52	1514243	29.11	17.36	1,054	2.44	1,515,297.36
Finger millet	115	0.03	-	-	115	0.03	1633	0.03	14.2	-	-	1,633.00
Oats / 'Aja'	216	0.06	-	-	216	0.06	3019.68	0.06	13.98	-	-	3,019.68
Rice	495	0.15	65	2.69	560	0.16	10073.3	0.19	20.35	358	0.83	10,430.75
Pulse	12,848	3.78	186	7.71	13,034	3.81	163270	3.14		1,047	2.43	164,316.62
Horse / Faba beans	742	0.22	-	-	742	0.22	9646	0.19	13	-	-	9,646.00
Field Peas	984	0.29	-	-	984	0.29	13480.8	0.26	13.7	-	-	13,480.80
Haricot beans	4,383	1.29	119	4.93	4,502	1.32	54130.1	1.04	12.35	685	1.59	54,815.05
Chick peas	1,092	0.32	23	0.95	1,115	0.33	14578.2	0.28	13.35	276	0.64	14,854.20
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch / Grass peas	189	0.06	-	-	189	0.06	2390.85	0.05	12.65	-	-	2,390.85
Soya beans	5,458	1.61	22	0.91	5,480	1.60	69043.7	1.33	12.65	86	0.20	69,129.72
Fenugreek	-	-	22	0.91	22	0.01	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-	-	-	-
Oilseeds	143,233	42.17	389	16.12	143,622	41.98	1135203	21.82		3,087	7.15	1,138,290.40
Niger seed/neug/	2,343	0.69	6	0.25	2,349	0.69	14268.9	0.27	6.09	60	0.14	14,328.87
Linseed	107	0.03	-	-	107	0.03	923.41	0.02	8.63	-	-	923.41
Groundnuts	59	0.02	1	0.04	60	0.02	767	0.01	13	20	-	787.00
Safflower	1,246	0.37	2	0.08	1,248	0.36	10441.5	0.20	8.38	62	-	10,503.48
Sesame	134,042	39.46	380	15.75	134,422	39.29	1045528	20.10	7.8	2,945	6.82	1,048,472.60
Rape seed	5,436	1.60	-	-	5,436	1.59	63275	1.22	11.64	-	-	63,275.04
Vegetables	3,534	100	125	100	3,659	100	211229	100		23,973	100	235,202.59
Lettuce	-	-	-	-	-	-	-	-	-	-	-	-
Head cabbage	62	1.75	2	1.60	64	1.75	4401.38	2.08	70.99	495	2.06	4,896.38
Ethiopian cabbage	5	0.14	2	1.60	7	0.19	415.3	0.20	83.06	400	1.67	815.30
Tomatoes	844	23.88	54	43.20	898	24.54	151076	71.52	179	20,078	83.75	171,154.00
Green peppers	131	3.71	3	2.40	134	3.66	10056.9	4.76	76.77	675	2.82	10,731.87
Red peppers	2,472	69.95	64	51.20	2,536	69.31	41059.9	19.44	16.61	2,325	9.70	43,385.04
Swiss chard	20	0.57	-	-	20	0.55	4220	2.00	211	-	-	4,220.00
Root crops	884	100	133	100	1,017	100	80383.8	100		14,710	100	95,093.29
Beetroot	6	0.68	2	1.50	8	0.79	568.92	0.71	94.82	80	0.54	648.92
Carrot	8	0.90	2	1.50	10	0.98	310.4	0.39	38.8	240	1.63	550.40
Onion	539	60.97	89	66.92	628	61.75	51339.8	63.87	95.25	13,083	88.94	64,422.75
Potatoes	111	12.56	38	28.57	149	14.65	8860.02	11.02	79.82	1,207	8.20	10,066.52
Garlic	68	7.69	-	-	68	6.69	7505.84	9.34	110.38	-	-	7,505.84
Taro 'Godere'	70	7.92	-	-	70	6.88	5281.5	6.57	75.45	-	-	5,281.50
Sweet potatoes	82	9.28	2	1.50	84	8.26	6517.36	8.11	79.48	100	0.68	6,617.36
Other Temporary cro	1,414	100	586	100	2,000	100	78724	100		50,233	100	128,957.00

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

Crop Types	Area in Ha.	%	Prod. In Qts	%	Yield (Qtn/ha)
Permanent crops	125,764	100	27,489,358	100	
Fruit crops	4,886	3.89	422,854	1.54	
Avocado	128	0.10	8,197	0.03	64.04
Bananas	1,075	0.85	71,875	0.26	66.86
Guava	8	0.01	294	*	36.7
Lemons	4	*	258	*	64.62
Mangoes	2,124	1.69	154,988	0.56	72.97
Oranges	1,252	1.00	150,578	0.55	120.27
Papayas	242	0.19	35,816	0.13	148
Pineapples	53	0.04	848	*	16
Cash crops	51,767	41.16	472,001	1.72	
Chat	56	0.04	6,944	0.03	124
Coffee	51,673	41.09	465,057	1.69	9
Tea	-	-	-	-	-
Hops / 'Gesho'	38	0.03	*	*	-
Enset	34	0.03	679	*	19.97
Sugar cane	20,509	16.31	25,488,585	92.72	1242.8
Cotton	40,528	32.23	770,032	2.80	19
Other Permanent cro	8,040	6.39	335,207	1.22	

Table 2 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2008/09 (2001 E.C.), Meher (Main) Season

Ethiopia					
Crop Types	Cropland area in		Production in		Crop Productivity/Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	471,289		33,061,416		
Grain crops	339,693	100	5,201,721	100	
Cereals	183,612	54.05	3,903,248	75.04	
Teff	2,964	0.87	36,161	0.70	12.2
Barley	6,042	1.78	132,924	2.56	22
Wheat	42,930	12.64	944,460	18.16	22
Maize	43,624	12.84	1,260,734	24.24	28.9
Sorghum	87,226	25.68	1,514,243	29.11	17.36
Finger millet	115	0.03	1,633	0.03	14.2
Oats / 'Aja'	216	0.06	3,020	0.06	13.98
Rice	495	0.15	10,073	0.19	20.35
Pulse	12,848	3.78	163,270	3.14	
Horse / Faba beans	742	0.22	9,646	0.19	13
Field Peas	984	0.29	13,481	0.26	13.7
Haricot beans	4,383	1.29	54,130	1.04	12.35
Chick peas	1,092	0.32	14,578	0.28	13.35
Lentils	-	-	-	-	-
Vetch / Grass peas	189	0.06	2,391	0.05	12.65
Soya beans	5,458	1.61	69,044	1.33	12.65
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	143,233	42.17	1,135,203	21.82	
Niger seed/neug/	2,343	0.69	14,269	0.27	6.09
Linseed	107	0.03	923	0.02	8.63
Groundnuts	59	0.02	767	0.01	13
Safflower	1,246	0.37	10,441	0.20	8.38
Sesame	134,042	39.46	1,045,528	20.10	7.8
Rape seed	5,436	1.60	63,275	1.22	11.64
Vegetables	3,534	100	211,229	100	
Lettuce	-	-	-	-	-
Head cabbage	62	1.75	4,401	2.08	70.99
Ethiopian cabbage	5	0.14	415	0.20	83.06
Tomatoes	844	23.88	151,076	71.52	179
Green peppers	131	3.71	10,057	4.76	76.77
Red peppers	2,472	69.95	41,060	19.44	16.61
Swiss chard	20	0.57	4,220	2.00	211
Root crops	884	100	80,384	100	
Beetroot	6	0.68	569	0.71	94.82
Carrot	8	0.90	310	0.39	38.8
Onion	539	60.97	51,340	63.87	95.25
Potatoes	111	12.56	8,860	11.02	79.82
Garlic	68	7.69	7,506	9.34	110.38
Taro 'Godere'	70	7.92	5,282	6.57	75.45
Sweet potatoes	82	9.28	6,517	8.11	79.48
Other Temporary crops	1,414	100	78,724	100	
Permanent crops	125,764	100	27,489,358	100	
Fruit crops	4,886	3.89	422,854	1.54	
Avocado	128	0.10	8,197	0.03	64.04
Bananas	1,075	0.85	71,875	0.26	66.86
Guava	8	0.01	294	*	36.7
Lemons	4	*	258	*	64.62
Mangoes	2,124	1.69	154,988	0.56	72.97
Oranges	1,252	1.00	150,578	0.55	120.27
Papayas	242	0.19	35,816	0.13	148
Pineapples	53	0.04	848	*	16
Cash crops	51,767	41.16	472,001	1.72	
Chat	56	0.04	6,944	0.03	124
Coffee	51,673	41.09	465,057	1.69	9
Tea	-	-	-	-	-
Hops / 'Gesho'	38	0.03	*	*	-
Enset	34	0.03	679	*	19.97
Sugar cane	20,509	16.31	25,488,585	92.72	1242.8
Cotton	40,528	32.23	770,032	2.80	19
Other Permanent crops	8,040	6.39	335,207	1.22	

Table 2.1 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2008/09 (2001 E.C.), Meher (Main) Season

Tigray Region					
Crop Types	Cropland area in		Production in		Crop Productivity/Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	121,352		1,620,536		
Grain crops	111,074	100	1,471,864	100	
Cereals	48,136	43.34	833,050	56.60	
Teff	478	0.43	6,066	0.41	12.69
Barley	-	-	-	-	-
Wheat	49	0.04	743	0.05	15.16
Maize	69	0.06	947	0.06	13.72
Sorghum	47,540	42.80	825,294	56.07	17.36
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	6	*	55	*	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	4	*	42	*	10.46
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	1	*	13	*	12.9
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	62,932	56.66	638,760	43.40	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	62,932	56.66	638,760	43.40	10.15
Rape seed	-	-	-	-	-
Vegetables	207	100	16,466	100	
Lettuce	-	-	-	-	-
Head cabbage	19	9.18	418	2.54	22
Ethiopian cabbage	-	-	-	-	-
Tomatoes	39	18.84	3,113	18.91	79.83
Green peppers	104	50.24	10,916	66.29	104.96
Red peppers	26	12.56	572	3.47	22
Swiss chard	19	9.18	1,447	8.79	76.16
Root crops	206	100	22,627	100	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	122	59.22	15,592	68.91	127.8
Potatoes	84	40.78	7,036	31.09	83.76
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	
Permanent crops	9,865	100	109,578	100	
Fruit crops	749	7.59	9,912	9.05	
Avocado	19	0.19	*	-	-
Bananas	52	0.53	*	-	-
Guava	-	-	-	-	-
Lemons	-	-	-	-	-
Mangoes	191	1.94	*	-	-
Oranges	404	4.10	-	-	-
Papayas	84	0.85	9,912	9.05	118
Pineapples	-	-	-	-	-
Cash crops	58	0.59	*	-	
Chat	-	-	-	-	-
Coffee	19	0.19	*	-	-
Tea	-	-	-	-	-
Hops / 'Gesho'	38	0.39	*	-	-
Enset	-	-	-	-	-
Sugar cane	-	-	-	-	-
Cotton	8,851	89.72	95,591	87.24	10.8
Other Permanent crops	207	2.10	4,075	3.72	

Table 2.2 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2008/09 (2001 E.C.), Meher (Main) Season

Afar Region					
Crop Types	Cropland area in		Production in		Crop Productivity/Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	21,822		2,010,389		
Grain crops	1,865	100	49,905	100	
Cereals	1,721	92.28	48,825	97.84	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	1,721	92.28	48,825	97.84	28.37
Sorghum	-	-	-	-	-
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	144	7.72	1,080	2.16	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	144	7.72	1,080	2.16	7.5
Rape seed	-	-	-	-	-
Vegetables	11	100	572	100	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	3	27.27	102	17.82	34
Green peppers	-	-	-	-	-
Red peppers	7	63.64	470	82.18	67.19
Swiss chard	-	-	-	-	-
Root crops	-	-	-	-	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	-	-	-	-	-
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	
Permanent crops	19,946	100	1,959,912	100	
Fruit crops	145	0.73	-	-	
Avocado	-	-	-	-	-
Bananas	-	-	-	-	-
Guava	-	-	-	-	-
Lemons	-	-	-	-	-
Mangoes	83	0.42	1,162	0.06	14
Oranges	62	0.31	4,836	0.25	78
Papayas	-	-	-	-	-
Pineapples	-	-	-	-	-
Cash crops	-	-	-	-	
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Tea	-	-	-	-	-
Hops / 'Gescho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	600	3.01	1,500,000	76.53	2500
Cotton	19,159	96.05	459,816	23.46	24
Other Permanent crops	42	0.21	96	0.00	

Table 2.3 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2008/09 (2001 E.C.), Meher (Main) Season

Amhara Region					
Crop Types	Cropland area in		Production in		Crop Productivity/Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	119,771		1,780,938		
Grain crops	118,268	100	1,653,494	100	
Cereals	48,349	40.88	1,164,975	70.46	
Teff	879	0.74	10,838	0.66	12.33
Barley	67	0.06	937	0.06	13.98
Wheat	2,370	2.00	42,660	2.58	18
Maize	11,871	10.04	557,937	33.74	47
Sorghum	33,095	27.98	552,356	33.41	16.69
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	67	0.06	248	0.01	3.7
Pulse	2,818	2.38	27,913	1.69	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	237	0.20	3,200	0.19	13.5
Chick peas	444	0.38	6,660	0.40	15
Lentils	-	-	-	-	-
Vetch / Grass peas	188	0.16	2,275	0.14	12.1
Soya beans	1,948	1.65	15,779	0.95	8.1
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	67,101	56.74	460,606	27.86	
Niger seed/neug/	766	0.65	5,324	0.32	6.95
Linseed	-	-	-	-	-
Groundnuts	30	0.03	90	0.01	3
Safflower	10	0.01	100	0.01	10
Sesame	66,040	55.84	451,714	27.32	6.84
Rape seed	255	0.22	3,379	0.20	13.25
Vegetables	1,032	100	93,994	100	
Lettuce	-	-	-	-	-
Head cabbage	22	2.13	5,029	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	22	2.13	1,824	2.05	82.9
Green peppers	-	-	-	-	-
Red peppers	988	95.74	87,142	97.95	88.2
Swiss chard	-	-	-	-	-
Root crops	119	100	13,685	100	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	119	100.00	13,685	100.00	115
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	106	100	203	100	
Permanent crops	246	100	19,562	100	
Fruit crops	27	10.98	1,444	7.38	
Avocado	3	1.22	45	0.23	15
Bananas	19	7.72	589	3.01	31
Guava	-	-	-	-	-
Lemons	-	-	-	-	-
Mangoes	2	0.81	10	0.05	5
Oranges	-	-	-	-	-
Papayas	4	1.63	800	4.09	200
Pineapples	-	-	-	-	-
Cash crops	217	88.21	1,194	6.10	
Chat	-	-	-	-	-
Coffee	217	88.21	1,194	6.10	5.5
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	2	0.81	340	1.74	170
Cotton	2,764	1123.58	16,584	84.78	6
Other Permanent crops	-	-	-	-	

Table 2.4 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2008/09 (2001 E.C.), Meher (Main) Season

Oromiya Region					
Crop Types	Cropland area in		Production in		Crop Productivity/Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	129,824		42,876,886		
Grain crops	80,759	100	1,747,910	100	
Cereals	66,693	82.58	1,602,629	91.69	
Teff	804	1.00	9,881	0.57	12.29
Barley	5,972	7.39	137,356	7.86	23
Wheat	40,460	50.10	930,580	53.24	23
Maize	14,070	17.42	426,321	24.39	30.3
Sorghum	5,093	6.31	94,068	5.38	18.47
Finger millet	78	0.10	1,099	0.06	14.09
Oats / 'Aja'	216	0.27	3,324	0.19	15.39
Rice	-	-	-	-	-
Pulse	5,854	7.25	71,641	4.10	
Horse / Faba beans	742	0.92	9,646	0.55	13
Field Peas	981	1.21	11,674	0.67	11.9
Haricot beans	1,325	1.64	17,318	0.99	13.07
Chick peas	579	0.72	7,301	0.42	12.61
Lentils	-	-	-	-	-
Vetch / Grass peas	1	0.00	14	0.00	13.8
Soya beans	2,226	2.76	25,688	1.47	11.54
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	8,212	10.17	73,641	4.21	
Niger seed/neug/	514	0.64	2,822	0.16	5.49
Linseed	107	0.13	749	0.04	7
Groundnuts	19	0.02	188	0.01	9.88
Safflower	6	0.01	33	0.00	5.42
Sesame	2,385	2.95	14,620	0.84	6.13
Rape seed	5,181	6.42	55,229	3.16	10.66
Vegetables	1,017	100	157,663	100	
Lettuce	-	-	-	-	-
Head cabbage	6	0.59	428	0.27	71.28
Ethiopian cabbage	5	0.49	338	0.21	67.69
Tomatoes	484	47.59	148,588	94.24	307
Green peppers	5	0.49	326	0.21	65.22
Red peppers	517	50.84	7,982	5.06	15.44
Swiss chard	-	-	-	-	-
Root crops	182	100	20,858	100	
Beetroot	5	2.75	490	2.35	98.03
Carrot	5	2.75	250	1.20	50
Onion	141	77.47	17,625	84.50	125
Potatoes	5	2.75	375	1.80	75
Garlic	5	2.75	578	2.77	115.55
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	21	11.54	1,540	7.38	73.32
Other Temporary crops	620	100	43,404	100	
Permanent crops	47,246	100	40,907,051	100	
Fruit crops	2,366	5.01	218,965	0.54	
Avocado	15	0.03	894	0.00	59.59
Bananas	2	0.00	-	0.00	-
Guava	5	0.01	75	0.00	15
Lemons	-	-	-	-	-
Mangoes	1,765	3.74	133,063	0.33	75.39
Oranges	449	0.95	51,011	0.12	113.61
Papayas	128	0.27	33,920	0.08	265
Pineapples	2	0.00	2	0.00	1
Cash crops	21,597	45.71	149,044	0.36	
Chat	2	0.00	38	0.00	19
Coffee	21,595	45.71	149,006	0.36	6.9
Tea	-	-	-	-	-
Hops / 'Gescho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	19,726	41.75	40,278,519	98.46	2041.9
Cotton	1,435	3.04	22,960	0.06	16
Other Permanent crops	2,122	4.49	237,563	0.58	

Table 2.5 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2008/09 (2001 E.C.), Meher (Main) Season

Somalie Region					
Crop Types	Cropland area in		Production in		Crop Productivity/Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	619		20,065		
Grain crops	87	100	2,648	100	
Cereals	75	86.21	2,338	88.30	
Teff	-	-	-	-	-
Barley	1	1.15	30	1.13	30
Wheat	10	11.49	325	12.27	32.5
Maize	57	65.52	1,756	66.30	30.8
Sorghum	7	8.05	228	8.59	32.5
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	7	8.05	233	8.80	
Horse / Faba beans	-	-	-	-	-
Field Peas	3	3.45	49	1.85	16.3
Haricot beans	1	1.15	10	0.38	10
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	3	3.45	174	6.57	58
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	5	5.75	77	2.91	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	1	1.15	37	1.40	37
Safflower	-	-	-	-	-
Sesame	4	4.60	40	1.51	10
Rape seed	-	-	-	-	-
Vegetables	58	100	3,299	100	
Lettuce	-	-	-	-	-
Head cabbage	1	1.72	140	4.24	140
Ethiopian cabbage	-	-	-	-	-
Tomatoes	30	51.72	2,340	70.93	78
Green peppers	18	31.03	648	19.64	36
Red peppers	9	15.52	171	5.18	19
Swiss chard	-	-	-	-	-
Root crops	22	100	2,001	100	
Beetroot	1	4.55	35	1.75	35
Carrot	3	13.64	105	5.25	35
Onion	17	77.27	1,836	91.75	108
Potatoes	1	4.55	25	1.25	25
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	100	-	100	
Permanent crops	452	100	12,117	100	
Fruit crops	220	48.67	11,439	94.40	
Avocado	1	0.22	10	0.08	10
Bananas	-	-	-	-	-
Guava	2	0.44	35	0.29	17.5
Lemons	2	0.44	113	0.93	56.5
Mangoes	7	1.55	772	6.37	110.23
Oranges	205	45.35	10,455	86.29	51
Papayas	3	0.66	54	0.45	18
Pineapples	-	-	-	-	-
Cash crops	3	0.66	108	0.89	
Chat	-	-	-	-	-
Coffee	3	0.66	108	0.89	36
Tea	-	-	-	-	-
Hops / 'Geshe'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	-	-	-	-	-
Cotton	-	-	-	-	-
Other Permanent crops	229	50.66	570	4.70	

Table 2.6 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2008/09 (2001 E.C.), Meher (Main) Season
Benishangul Gumuz Region

Crop Types	Cropland area in		Production in		Crop Productivity/Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	5,227		69,047		
Grain crops	5,062	100	66,009	100	
Cereals	2,049	40.48	43,945	66.57	
Teff	4	0.08	40	0.06	10
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	1,363	26.93	32,930	49.89	24.16
Sorghum	680	13.43	10,941	16.58	16.09
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	2	0.04	33	0.05	16.71
Pulse	316	6.24	3,307	5.01	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	6	0.12	83	0.13	13.82
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	310	6.12	3,224	4.88	10.4
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	2,697	53.28	18,757	28.42	
Niger seed/neug/	1,063	21.00	6,335	9.60	5.96
Linseed	-	-	-	-	-
Groundnuts	9	0.18	153	0.23	17
Safflower	-	-	-	-	-
Sesame	1,625	32.10	12,269	18.59	7.55
Rape seed	-	-	-	-	-
Vegetables	101	100	2,201	100	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	2	1.98	200	9.09	100
Green peppers	3	2.97	108	4.91	36
Red peppers	96	95.05	1,893	86.01	19.72
Swiss chard	-	-	-	-	-
Root crops	2	100	179	100	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	2	100.00	179	100.00	89.36
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	51	100	146	100	
Permanent crops	11	100	513	100	
Fruit crops	5	45.45	286	55.73	
Avocado	-	-	-	0.00	-
Bananas	5	45.45	286	55.73	57.16
Guava	-	-	-	-	-
Lemons	-	-	-	-	-
Mangoes	-	-	-	-	-
Oranges	-	-	-	-	-
Papayas	-	-	-	-	-
Pineapples	-	-	-	-	-
Cash crops	-	-	-	-	
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	-	-	-	-	-
Cotton	-	-	-	-	-
Other Permanent crops	6	54.55	227	44.27	

Table 2.7 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2008/09 (2001 E.C.), Meher (Main) Season

Crop Types	Cropland area in		Production in		Crop Productivity/Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	63,216		1,349,627		
Grain crops	22,261	100	450,044	100	
Cereals	16,320	73.31	402,139	89.50	
Teff	800	3.59	8,616	1.92	10.77
Barley	2	0.01	28	0.01	13.8
Wheat	42	0.19	802	0.18	19.09
Maize	14,203	63.80	365,017	81.24	25.7
Sorghum	810	3.64	16,686	3.71	20.6
Finger millet	37	0.17	1,406	0.31	38
Oats / 'Aja'	-	-	-	-	-
Rice	426	1.91	9,585	2.13	22.5
Pulse	3,837	17.24	35,701	7.95	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	2,799	12.57	27,626	6.15	9.87
Chick peas	68	0.31	741	0.16	10.9
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	970	4.36	7,333	1.63	7.56
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	2,104	9.45	12,204	2.72	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	1,230	5.53	7,921	1.76	6.44
Sesame	874	3.93	4,283	0.95	4.9
Rape seed	-	-	-	-	-
Vegetables	1,107	100	54,847	100	
Lettuce	-	-	-	-	-
Head cabbage	14	1.26	838	1.53	59.85
Ethiopian cabbage	-	-	-	-	-
Tomatoes	264	23.85	34,320	62.57	130
Green peppers	-	-	-	-	-
Red peppers	829	74.89	19,689	35.90	23.75
Swiss chard	-	-	-	-	-
Root crops	353	100	31,171	100	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	137	38.81	15,396	49.39	112.38
Potatoes	22	6.23	1,702	5.46	77.37
Garlic	63	17.85	2,623	8.41	41.63
Taro 'Godere'	70	19.83	5,584	17.91	79.77
Sweet potatoes	61	17.28	5,866	18.82	96.17
Other Temporary crops	626	100.00	34,915	100.00	
Permanent crops	38,869	100	778,650	100	
Fruit crops	1,355	3.49	108,467	13.93	
Avocado	86	0.22	5,784	0.74	67.25
Bananas	997	2.57	73,270	9.41	73.49
Guava	2	0.01	360	0.05	180
Lemons	-	-	-	-	-
Mangoes	76	0.20	6,696	0.86	88.1
Oranges	120	0.31	16,800	2.16	140
Papayas	23	0.06	3,978	0.51	172.94
Pineapples	51	0.13	1,581	0.20	31
Cash crops	28,024	72.10	334,539	42.96	
Chat	54	0.14	7,290	0.94	135
Coffee	27,970	71.96	327,249	42.03	11.7
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	34	0.09	701	0.09	20.61
Sugar cane	181	0.47	66,914	8.59	369.69
Cotton	3,900	10.03	175,500	22.54	45
Other Permanent crops	5,375	13.83	92,529	11.88	

Table 2.8 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2008/09 (2001 E.C.), Meher (Main) Season

Gambella Region					
Crop Types	Cropland area in		Production in		Crop Productivity/Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	6,682		72,010		
Grain crops	320	100	5,573	100	
Cereals	270	84.38	5,436	97.55	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	269	84.06	5,396	96.83	20.06
Sorghum	1	0.31	40	0.72	40
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	11	3.44	137	2.45	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	11	3.44	137	2.45	12.43
Chick peas	-	-	-	-	11.89
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	39	12.19	0	0.00	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	39	12.19	-	*	*
Rape seed	-	-	-	-	-
Vegetables	0				
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	-	-	-	-	-
Green peppers	-	-	-	-	-
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	0				
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	-	-	-	-	-
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	10	100.00	5	100.00	
Permanent crops	6,352	100	66,433	100	
Fruit crops	5	0.08	103	0.16	
Avocado	4	0.06	88	0.13	22
Bananas	1	0.02	15	0.02	15
Guava	-	-	-	-	-
Lemons	-	-	-	-	-
Mangoes	-	-	-	-	-
Oranges	-	-	-	-	-
Papayas	-	-	-	-	-
Pineapples	-	-	-	-	-
Cash crops	1,869	29.42	17,569	26.45	
Chat	-	-	-	-	-
Coffee	1,869	29.42	17,569	26.45	9.4
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	-	-	-	-	-
Cotton	4,420	69.58	48,620	73.19	11
Other Permanent crops	58	0.91	141	0.21	

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

Crop Types	Cropland area in		Production in		Crop Productivity/Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	23		1,471		
Grain crops					
Cereals					
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse					
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds					
Niger seed/neug'	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	-	-	-	-	-
Rape seed	-	-	-	-	-
Vegetables	3	100	91	100	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	1	33.33	26	28.57	26
Green peppers	1	33.33	17	18.68	17
Red peppers	-	-	-	-	-
Swiss chard	1	33.33	48	52.75	48
Root crops	1	100	28		
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	1	100.00	28	100.00	28
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	1	100.00	51	100.00	
Permanent crops	18	100	1,301	100	
Fruit crops	16	88.89	1,295	99.54	
Avocado	-	-	-	-	-
Bananas	-	-	-	-	-
Guava	-	-	-	-	-
Lemons	2	11.11	118	9.07	59
Mangoes	2	11.11	6	0.46	3
Oranges	11	61.11	1,089	83.70	99
Papayas	1	5.56	82	6.30	82
Pineapples	-	-	-	-	-
Cash crops	0				
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	-	-	-	-	-
Cotton	-	-	-	-	-
Other Permanent crops	2	11.11	6	0.46	

Table 3 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2008/09 (2001 E.C.), Belg Season

Ethiopia					
Crop Types	Total Grain Crops				Crop Productivity/ Yield (QTS/Ha)
	Cropland area in		Production in		
	Hectare	%	Quintals	%	
Total	3,257		132,083		
Grain crops	2,413	100	43,167	100	
Cereals	1,838	76.17	39,033	90.42	
Teff	102	4.23	1,006	2.33	9.86
Barley	1	0.04	7	0.02	7
Wheat	19	0.79	390	0.90	20
Maize	1,572	65.15	36,219	83.90	23.04
Sorghum	79	3.27	1,054	2.44	13.34
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	65	2.69	358	0.83	5.5
Pulse	186	7.71	1,047	2.43	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	119	4.93	685	1.59	5.74
Chick peas	23	0.95	276	0.64	12
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	22	0.91	86	0.20	3.91
Fenugreek	22	0.91	-	-	-
Gibto	-	-	-	-	-
Oilseeds	389	16.12	3,087	7.15	
Niger seed/neug/	6	0.25	60	0.14	10
Linseed	-	-	-	-	-
Groundnuts	1	0.04	20	-	20
Safflower	2	0.08	62	-	31
Sesame	380	15.75	2,945	6.82	7.75
Rape seed	-	-	-	-	-
Vegetables	125	100	23,973	100	
Lettuce	-	-	-	-	-
Head cabbage	2	1.60	495	2.06	247.5
Ethiopian cabbage	2	1.60	400	1.67	200
Tomatoes	54	43.20	20,078	83.75	371.27
Green peppers	3	2.40	675	2.82	225
Red peppers	64	51.20	2,325	9.70	36.33
Swiss chard	-	-	-	-	-
Root crops	133	100	14,710	100	
Beetroot	2	1.50	80	0.54	40
Carrot	2	1.50	240	1.63	120
Onion	89	66.92	13,083	88.94	147
Potatoes	38	28.57	1,207	8.20	31.75
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	2	1.50	100	0.68	50
Other Temporary cro	586	100	50,233	100	

Table 3.1 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2008/09 (2001 E.C.), Belg Season

Tigray Region					
Crop Types	Total Grain Crops				Crop Productivity/ Yield (QTS/Ha)
	Cropland area in		Production in		
	Hectare	%	Quintals	%	
Total	142		29,989		
Grain crops	96	100	1,311	100	
Cereals	94	97.92	1,263	96.30	
Teff	70	72.92	770	58.73	11
Barley	-	-	-	-	-
Wheat	19	19.79	390	29.75	20
Maize	5	5.21	103	7.82	20.5
Sorghum	-	-	-	-	-
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	2	2.08	48	3.66	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	1	1.04	20	1.53	20
Safflower	-	-	-	-	-
Sesame	1	1.04	28	2.14	28
Rape seed	-	-	-	-	-
Vegetables	22	100	18,684	100	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	21	95.45	18,284	97.86	870.66
Green peppers	1	4.55	400	2.14	400
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	24	100	9,995	100	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	24	100.00	9,995	100.00	410.67
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary cro	-	-	-	-	

Table 3.2 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2008/09 (2001 E.C.), Belg Season

Afar Region						
Crop Types	Total Grain Crops				Crop Productivity/ Yield (QTS/Ha)	
	Cropland area in		Production in			
	Hectare	%	Quintals	%		
Total	1,080		36,624			
Grain crops	983	100	14,984	100		
Cereals	853	86.78	14,399	96.09		
Teff	-	-	-	-		
Barley	-	-	-	-		
Wheat	-	-	-	-		
Maize	853	86.78	14,399	96.09	16.88	
Sorghum	-	-	-	-		
Finger millet	-	-	-	-		
Oats / 'Aja'	-	-	-	-		
Rice	-	-	-	-		
Pulse	-	-	-	-		
Horse / Faba beans	-	-	-	-		
Field Peas	-	-	-	-		
Haricot beans	-	-	-	-		
Chick peas	-	-	-	-		
Lentils	-	-	-	-		
Vetch / Grass peas	-	-	-	-		
Soya beans	-	-	-	-		
Fenugreek	-	-	-	-		
Gibto	-	-	-	-		
Oilseeds	130	13.22	585	3.90		
Niger seed/neug/	-	-	-	-		
Linseed	-	-	-	-		
Groundnuts	-	-	-	-		
Safflower	-	-	-	-		
Sesame	130	13.22	585	3.90	4.5	
Rape seed	-	-	-	-		
Vegetables	-	-	-	-		
Lettuce	-	-	-	-		
Head cabbage	-	-	-	-		
Ethiopian cabbage	-	-	-	-		
Tomatoes	-	-	-	-		
Green peppers	-	-	-	-		
Red peppers	-	-	-	-		
Swiss chard	-	-	-	-		
Root crops	-	-	-	-		
Beetroot	-	-	-	-		
Carrot	-	-	-	-		
Onion	-	-	-	-		
Potatoes	-	-	-	-		
Garlic	-	-	-	-		
Taro 'Godere'	-	-	-	-		
Sweet potatoes	-	-	-	-		
Other Temporary cro	97	100	21,640	100		

Table 3.3 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2008/09 (2001 E.C.), Belg Season

Amhara Region					
Crop Types	Total Grain Crops				Crop Productivity/ Yield (QTS/Ha)
	Cropland area in		Production in		
	Hectare	%	Quintals	%	
Total	504		9,050		
Grain crops	404	100	5,916	100	
Cereals	268	66.34	5,523	93.36	
Teff	25	6.19	235	3.97	9.23
Barley	1	0.25	7	0.12	7
Wheat	-	-	-	-	-
Maize	148	36.63	4,812	81.34	32.5
Sorghum	34	8.42	289	4.89	8.5
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	60	14.85	180	3.04	3
Pulse	51	12.62	10	0.17	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	1	0.25	4	0.07	4
Chick peas	22	5.45	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	6	1.49	6	0.10	1
Fenugreek	22	5.45	-	-	-
Gibto	-	-	-	-	-
Oilseeds	85	21.04	383	6.47	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	85	21.04	383	6.47	4.5
Rape seed	-	-	-	-	-
Vegetables	22	100	110	100	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	22	100.00	110	100.00	5
Green peppers	-	-	-	-	-
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	78	100	3,024	100	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	56	71.79	2,694	89.09	48.11
Potatoes	22	28.21	330	10.91	15
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary cro	-	-	-	-	

Table 3.4 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2008/09 (2001 E.C.), Belg Season

Oromiya Region

Crop Types	Total Grain Crops				Crop Productivity/ Yield (QTS/Ha)
	Cropland area in		Production in		
	Hectare	%	Quintals	%	
Total	361		10,744		
Grain crops	305	100	6,388	100	
Cereals	138	45.25	5,166	80.87	
Teff	6	1.97	66	1.03	11
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	120	39.34	4,800	75.14	40
Sorghum	12	3.93	300	4.70	25
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	11	3.61	412	6.45	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	10	3.28	400	6.26	39.88
Chick peas	1	0.33	12	0.19	12
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	156	51.15	810	12.68	
Niger seed/neug/	6	1.97	60	0.94	10
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	150	49.18	750	11.74	5
Rape seed	-	-	-	-	-
Vegetables	39	100	2,861	100	
Lettuce	-	-	-	-	-
Head cabbage	1	2.56	480	16.78	480
Ethiopian cabbage	2	5.13	400	13.98	200
Tomatoes	9	23.08	1,707	59.67	189.69
Green peppers	-	-	-	-	-
Red peppers	27	69.23	274	9.57	10.14
Swiss chard	-	-	-	-	-
Root crops	16	100	1,095	100	
Beetroot	2	12.50	80	7.31	40
Carrot	2	12.50	240	21.92	120
Onion	9	56.25	612	55.89	68
Potatoes	3	18.75	163	14.89	54.33
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary cro	1	100	400	100	

Table 3.5 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2008/09 (2001 E.C.), Belg Season

Somalie Region					
Crop Types	Total Grain Crops				Crop Productivity/ Yield (QTS/Ha)
	Cropland area in		Production in		
	Hectare	%	Quintals	%	
Total	15		840		
Grain crops	10	100	500	100	
Cereals	10	100.00	500	100.00	
Teff	-	-	-	-	
Barley	-	-	-	-	
Wheat	-	-	-	-	
Maize	10	100.00	500	100.00	50
Sorghum	-	-	-	-	
Finger millet	-	-	-	-	
Oats / 'Aja'	-	-	-	-	
Rice	-	-	-	-	
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	
Field Peas	-	-	-	-	
Haricot beans	-	-	-	-	
Chick peas	-	-	-	-	
Lentils	-	-	-	-	
Vetch / Grass peas	-	-	-	-	
Soya beans	-	-	-	-	
Fenugreek	-	-	-	-	
Gibto	-	-	-	-	
Oilseeds	-	-	-	-	
Niger seed/neug/	-	-	-	-	
Linseed	-	-	-	-	
Groundnuts	-	-	-	-	
Safflower	-	-	-	-	
Sesame	-	-	-	-	
Rape seed	-	-	-	-	
Vegetables	5	100	340	100	
Lettuce	-	-	-	-	
Head cabbage	1	20.00	60	17.65	60
Ethiopian cabbage	-	-	-	-	
Tomatoes	2	40.00	180	52.94	90
Green peppers	2	40.00	100	29.41	50
Red peppers	-	-	-	-	
Swiss chard	-	-	-	-	
Root crops	-	-	-	-	
Beetroot	-	-	-	-	
Carrot	-	-	-	-	
Onion	-	-	-	-	
Potatoes	-	-	-	-	
Garlic	-	-	-	-	
Taro 'Godere'	-	-	-	-	
Sweet potatoes	-	-	-	-	
Other Temporary cro	-	-	-	-	

Table 3.6 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2008/09 (2001 E.C.), Belg Season

Benishangul-Gumuz Region

Crop Types	Total Grain Crops				Crop Productivity/ Yield (QTS/Ha)
	Cropland area in		Production in		
	Hectare	%	Quintals	%	
Total	91		1,134		
Grain crops	89	100	1,132	100	
Cereals	60	67.42	984	86.93	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	32	35.96	480	42.40	15
Sorghum	28	31.46	504	44.52	18
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	16	17.98	80	7.07	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	16	17.98	80	7.07	5
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	13	14.61	68	6.01	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	13	14.61	68	6.01	5.23
Rape seed	-	-	-	-	-
Vegetables	2	100	2	100	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	-	-	-	-	-
Green peppers	-	-	-	-	-
Red peppers	2	100.00	2	100.00	1
Swiss chard	-	-	-	-	-
Root crops	-	-	-	-	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	-	-	-	-	-
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary cro	-	-	-	-	

Table 3.7 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2008/09 (2001 E.C.), Belg Season

S.N.N.P.R					
Crop Types	Total Grain Crops				Crop Productivity/ Yield (QTS/Ha)
	Cropland area in		Production in		
	Hectare	%	Quintals	%	
Total	1,062		46,473		
Grain crops	524	100	15,827	100	
Cereals	413	78.82	15,047	95.07	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	403	76.91	14,929	94.33	37
Sorghum	5	0.95	76	0.48	15.2
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	5	0.95	42	0.27	8.4
Pulse	108	20.61	648	4.09	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	108	20.61	648	4.09	6
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	3	0.57	132	0.83	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	2	0.38	62	0.39	31
Sesame	1	0.19	70	0.44	70
Rape seed	-	-	-	-	-
Vegetables	35	100	2,275	100	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	-	-	-	-	-
Green peppers	-	-	-	-	-
Red peppers	35	100.00	2,275	100.00	65
Swiss chard	-	-	-	-	-
Root crops	15	100	178	100	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	-	-	-	-	-
Potatoes	13	86.67	78	43.82	6
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	2	13.33	100	56.18	50
Other Temporary cro	488	100	28,193	100	

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 ,2008/09 (2001 E.C.), Both Seasons**

Ethiopia

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	129,538	98,007	142,347	125,656	130,348	135,999	272,190	55,369
Grain crops	84,254	52,904	100,232	90,465	91,768	102,363	240,350	47,409
Cereals	80,004	50,291	86,425	79,537	77,137	97,644	111,900	37,592
Teff	650	208	1,019	506	506	136	1,632	549
Barley	1	-	14	13	2,828	3,719	7	3
Wheat	41,410	14,557	52,782	49,277	32,944	59,606	19,983	27,271
Maize	37,696	35,426	31,910	29,313	40,619	33,910	5,419	1,550
Sorghum	192	77	571	359	203	258	84,245	7,544
Finger millet	26	11	26	11	17	2	94	20
Oats / 'Aja'	-	-	83	55	-	-	216	243
Rice	29	11	20	4	20	13	304	412
Pulse	2,216	598	3,345	2,300	3,656	3,281	5,502	3,337
Horse / Faba beans	-	-	-	-	692	765	15	10
Field Peas	6	9	6	8	5	2	6	7
Haricot beans	437	229	551	413	1,676	1,199	1,451	659
Chick peas	-	-	88	48	540	676	363	251
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	32	6
Soya beans	1,774	360	2,700	1,831	744	640	3,634	2,398
Fenugreek	-	-	-	-	-	-	1	7
Gibto	-	-	-	-	-	-	-	-
Oilseeds	2,034	2,015	10,462	8,628	10,975	1,438	122,948	6,480
Niger seed/neug/	-	-	9	3	39	3	1,484	171
Linseed	-	-	105	53	-	-	214	57
Groundnuts	-	-	-	-	2	1	28	17
Safflower	-	-	-	-	110	15	335	34
Sesame	1,786	1,893	5,528	1,338	4,668	173	120,639	6,163
Rape seed	248	121	4,822	7,234	6,156	1,246	248	37
Vegetables	1,786	2,132	1,686	2,182	1,813	11,695	1,081	86
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	17	30	27	41	59	5,582	3	-
Ethiopian cabbage	2	1	2	2	-	-	2	-
Tomatoes	549	653	439	730	730	5,597	128	17
Green peppers	41	57	38	57	2	-	23	2
Red peppers	1,176	1,392	1,179	1,352	1,023	516	925	67
Swiss chard	1	-	1	-	-	-	-	-
Root crops	314	740	186	433	282	730	8,818	215
Beetroot	2	-	2	-	3	5	-	-
Carrot	4	3	4	3	5	9	2	12
Onion	274	592	158	395	188	26	8,648	22
Potatoes	23	39	22	34	41	560	25	73
Garlic	-	-	-	-	5	2	63	1
Taro 'Godere'	11	106	-	-	25	121	-	-
Sweet potatoes	-	-	-	-	15	6	80	106
Other Temporary crops	635	1,232	596	892	830	366	1,218	995
Permanent crops	41227	40376	39646	31683	20621	13106	758	93
Fruit crops	885	1210	779	309	1214	29	5	-
Avocado	-	-	-	-	2	6	-	-
Bananas	105	211	-	-	-	-	-	-
Guava	-	-	-	-	1	-	-	-
Lemons	1	-	1	-	1	1	-	-
Mangoes	399	80	399	40	1204	2	2	-
Oranges	209	387	209	158	1	-	-	-
Papayas	119	73	119	60	2	20	3	-
Pineapples	51	459	51	51	2	-	-	-
Cash crops	19928	20520	20172	14730	656	20	733	-
Chat	50	189	-	-	-	-	-	-
Coffee	19877	20331	20172	14730	656	20	733	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	15	89
Sugar cane	19935	18169	18215	16003	18749	13054	-	-
Cotton	1322	622	-	-	15034	7741	19965	6572
Other Permanent crops	480	477	480	640	3	3	5	3

Table 4. Contd

Ethiopia

Both Seasons

Crop Type	Chemicals							
	Pesticide		Fungicides		Herbicides		Others	
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	65,547	6,021	52,627	798	244,650	6,516	17,592	18,910
Grain crops	15,747	148	27,472	185	164,658	4,799	1,037	1,701
Cereals	7,244	59	25,632	174	158,056	4,651	1,037	1,701
Teff	83	1	3	-	548	7	-	-
Barley	1,427	5	868	4	1,794	45	-	-
Wheat	384	2	23,946	147	71,395	601	-	-
Maize	3,729	41	538	16	21,379	2,911	1,037	1,701
Sorghum	1,621	10	185	6	62,498	1,082	-	-
Finger millet	-	-	-	-	50	1	-	-
Oats / 'Aja'	-	-	83	-	166	1	-	-
Rice	-	-	9	-	227	4	-	-
Pulse	1,060	19	174	1	2,040	48	-	-
Horse / Faba beans	310	2	-	-	230	5	-	-
Field Peas	8	-	8	-	-	-	-	-
Haricot beans	168	3	136	-	56	2	-	-
Chick peas	327	2	-	-	128	1	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	248	12	30	-	1,626	39	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	7,443	70	1,666	10	4,562	100	-	-
Niger seed/neug/	68	3	-	-	166	7	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	4,567	34	494	4	3,873	80	-	-
Rape seed	2,808	32	1,172	6	524	13	-	-
Vegetables	2,150	53	1,293	33	58	2	45	77
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	2	-	33	1	1	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	1,554	33	1,151	31	-	-	45	77
Green peppers	35	1	32	1	-	-	-	-
Red peppers	559	18	76	1	57	2	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	572	53	626	21	75	3	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	2	4	-	-	-	-	-	-
Onion	549	29	626	21	12	-	-	-
Potatoes	-	-	-	-	63	3	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	21	21	-	-	-	-	-	-
Other Temporary crops	2,735	22	1,651	36	4	-	574	1,051
Permanent crops	13295	1509	19110	131	71905	1481	15785	15661
Fruit crops	346	1384	665	9	168	8	19	76
Avocado	-	-	-	-	-	-	-	-
Bananas	2	-	-	-	-	-	-	-
Guava	5	1380	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	11	-	88	3	61	3	-	-
Oranges	318	4	458	5	107	5	19	76
Papayas	10	-	119	1	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	11541	6	126	1	48029	493	12079	10838
Chat	-	-	-	-	-	-	-	-
Coffee	11541	6	126	1	48029	493	12079	10838
Tea	-	-	-	-	-	-	-	-
Hops / 'Gescho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	1117	29	18139	118	20108	887	219	10
Cotton	31048	4238	2475	392	7950	231	151	420
Other Permanent crops	292	90	180	3	3600	92	3469	4737

Table 5 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Meher (Main) Season

Ethiopia

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	129190	97699	141888	125305	129181	133044	270482	54359
Grain crops	84004	52666	99861	90220	90727	99489	239335	46598
Cereals	79910	50155	86263	79360	76126	94784	111340	37484
Teff	646	204	1015	502	503	135	1573	538
Barley	-	-	13	13	2828	3719	6	2
Wheat	41410	14557	52782	49277	32944	59606	19983	27271
Maize	37618	35296	31764	29141	39611	31051	4970	1461
Sorghum	181	75	560	358	203	258	84195	7537
Finger millet	26	11	26	11	17	2	94	20
Oats / 'Aja'	-	-	83	55	-	-	216	243
Rice	29	11	20	4	20	13	304	412
Pulse	2210	596	3286	2282	3629	3268	5417	3218
Horse / Faba beans	-	-	-	-	692	765	15	10
Field Peas	6	9	6	8	5	2	6	7
Haricot beans	431	227	492	395	1649	1186	1397	577
Chick peas	-	-	88	48	540	676	349	237
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	32	6
Soya beans	1774	360	2700	1831	744	640	3618	2382
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	1884	1915	10312	8578	10972	1437	122578	5896
Niger seed/neug/	-	-	9	3	39	3	1478	166
Linseed	-	-	105	53	-	-	214	57
Groundnuts	-	-	-	-	2	1	28	17
Safflower	-	-	-	-	110	15	335	34
Sesame	1636	1793	5378	1288	4665	172	120275	5584
Rape seed	248	121	4822	7234	6156	1246	248	37
Vegetables	1715	2072	1624	2148	1776	11655	1064	86
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	15	28	25	38	59	5582	1	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	537	632	436	727	729	5597	119	17
Green peppers	38	54	35	54	1	-	21	2
Red peppers	1124	1359	1127	1329	988	476	923	67
Swiss chard	1	-	1	-	-	-	-	-
Root crops	304	731	177	423	280	719	8763	156
Beetroot	2	-	2	-	3	5	-	-
Carrot	2	1	2	-	5	9	-	-
Onion	268	588	152	390	188	26	8613	21
Potatoes	21	36	21	32	39	549	9	27
Garlic	-	-	-	-	5	2	63	1
Taro 'Godere'	11	106	-	-	25	121	-	-
Sweet potatoes	-	-	-	-	15	6	78	106
Other Temporary crops	618	1232	579	831	744	334	597	855
Permanent crops	41227	40376	39646	31683	20621	13106	758	93
Fruit crops	885	1210	779	309	1214	29	5	-
Avocado	-	-	-	-	2	6	-	-
Bananas	105	211	-	-	-	-	-	-
Guava	-	-	-	-	1	-	-	-
Lemons	1	-	1	-	1	1	-	-
Mangoes	399	80	399	40	1204	2	2	-
Oranges	209	387	209	158	1	-	-	-
Papayas	119	73	119	60	2	20	3	-
Pineapples	51	459	51	51	2	-	-	-
Cash crops	19928	20520	20172	14730	656	20	733	-
Chat	50	189	-	-	-	-	-	-
Coffee	19877	20331	20172	14730	656	20	733	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	15	89
Sugar cane	19935	18169	18215	16003	18749	13054	-	-
Cotton	1322	622	-	-	15034	7741	19965	6572
Other Permanent crops	480	477	480	640	3	3	5	3

Table 5 Contd

Ethiopia

Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	64664	6012	52482	798	244490	6516	17592	18910
Grain crops	15084	141	27416	185	164498	4799	1037	1701
Cereals	6634	52	25629	174	158046	4651	1037	1701
Teff	83	1	-	-	548	7	-	-
Barley	1427	5	868	4	1794	45	-	-
Wheat	384	2	23946	147	71395	601	-	-
Maize	3119	34	538	16	21379	2911	1037	1701
Sorghum	1621	10	185	6	62488	1082	-	-
Finger millet	-	-	-	-	50	1	-	-
Oats / 'Aja'	-	-	83	-	166	1	-	-
Rice	-	-	9	-	227	4	-	-
Pulse	1007	19	121	1	2040	48	-	-
Horse / Faba beans	310	2	-	-	230	5	-	-
Field Peas	8	-	8	-	-	-	-	-
Haricot beans	115	3	83	-	56	2	-	-
Chick peas	327	2	-	-	128	1	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	248	12	30	-	1626	39	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	7443	70	1666	10	4412	100	-	-
Niger seed/neug/	68	3	-	-	166	7	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	4567	34	494	4	3723	80	-	-
Rape seed	2808	32	1172	6	524	13	-	-
Vegetables	2085	52	1291	33	58	2	45	77
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	2	-	33	1	1	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	1550	33	1149	31	-	-	45	77
Green peppers	32	1	32	1	-	-	-	-
Red peppers	501	18	76	1	57	2	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	568	53	624	21	75	3	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	2	4	-	-	-	-	-	-
Onion	545	29	624	21	12	-	-	-
Potatoes	-	-	-	-	63	3	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	21	21	-	-	-	-	-	-
Other Temporary crops	2584	20	1566	36	4	-	574	1051
Permanent crops	13295	1509	19110	131	71905	1481	15785	15661
Fruit crops	346	1384	665	9	168	8	19	76
Avocado	-	-	-	-	-	-	-	-
Bananas	2	-	-	-	-	-	-	-
Guava	5	1380	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	11	-	88	3	61	3	-	-
Oranges	318	4	458	5	107	5	19	76
Papayas	10	-	119	1	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	11541	6	126	1	48029	493	12079	10838
Chat	-	-	-	-	-	-	-	-
Coffee	11541	6	126	1	48029	493	12079	10838
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	1117	29	18139	118	20108	887	219	10
Cotton	31048	4238	2475	392	7950	231	151	420
Other Permanent crops	292	90	180	3	3600	92	3469	4737

Table 5.1 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Meher (Main) Season

Tigray Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP		Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts				
Total	19	39	4687	538	4229	148	123649	6694
Grain crops	-	-	4648	441	4229	148	106373	5363
Cereals	-	-	420	294	-	-	49138	3030
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	420	294	-	-	49138	3030
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	1	1	4	1
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	4	1
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	1	1	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	4228	147	4228	147	57231	2332
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	4228	147	4228	147	57231	2332
Rape seed	-	-	-	-	-	-	-	-
Vegetables	19	39	39	97	-	-	19	1
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	19	58	-	-	19	1
Green peppers	19	39	19	39	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	8476	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	8476	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	8781	1330
Other Permanent crops	-	-	-	-	-	-	-	-

Table 5.1 Contd

TIGRAY Region		Meher Season								
Crop Type	Chemicals								Others	
	Pesticide		Fungicides		Herbicides					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts		
Total	13090	742	507	10	38609	595	-	-		
Grain crops	5191	25	507	10	38274	576	-	-		
Cereals	1447	9	185	6	35279	506	-	-		
Teff	-	-	-	-	-	-	-	-		
Barley	-	-	-	-	-	-	-	-		
Wheat	-	-	-	-	-	-	-	-		
Maize	26	1	-	-	-	-	-	-		
Sorghum	1421	9	185	6	35279	506	-	-		
Finger millet	-	-	-	-	-	-	-	-		
Oats / 'Aja'	-	-	-	-	-	-	-	-		
Rice	-	-	-	-	-	-	-	-		
Pulse	-	-	-	-	-	-	-	-		
Horse / Faba beans	-	-	-	-	-	-	-	-		
Field Peas	-	-	-	-	-	-	-	-		
Haricot beans	-	-	-	-	-	-	-	-		
Chick peas	-	-	-	-	-	-	-	-		
Lentils	-	-	-	-	-	-	-	-		
Vetch / Grass peas	-	-	-	-	-	-	-	-		
Soya beans	-	-	-	-	-	-	-	-		
Fenugreek	-	-	-	-	-	-	-	-		
Gibto	-	-	-	-	-	-	-	-		
Oilseeds	3744	16	322	4	2995	70	-	-		
Niger seed/neug/	-	-	-	-	-	-	-	-		
Linseed	-	-	-	-	-	-	-	-		
Groundnuts	-	-	-	-	-	-	-	-		
Safflower	-	-	-	-	-	-	-	-		
Sesame	3744	16	322	4	2995	70	-	-		
Rape seed	-	-	-	-	-	-	-	-		
Vegetables	-	-	-	-	-	-	-	-		
Lettuce	-	-	-	-	-	-	-	-		
Head cabbage	-	-	-	-	-	-	-	-		
Ethiopian cabbage	-	-	-	-	-	-	-	-		
Tomatoes	-	-	-	-	-	-	-	-		
Green peppers	-	-	-	-	-	-	-	-		
Red peppers	-	-	-	-	-	-	-	-		
Swiss chard	-	-	-	-	-	-	-	-		
Root crops	-	-	-	-	-	-	-	-		
Beetroot	-	-	-	-	-	-	-	-		
Carrot	-	-	-	-	-	-	-	-		
Onion	-	-	-	-	-	-	-	-		
Potatoes	-	-	-	-	-	-	-	-		
Garlic	-	-	-	-	-	-	-	-		
Taro 'Godere'	-	-	-	-	-	-	-	-		
Sweet potatoes	-	-	-	-	-	-	-	-		
Other Temporary crops	-	-	-	-	-	-	-	-		
Permanent crops	14	-	-	-	-	-	-	-		
Fruit crops	-	-	-	-	-	-	-	-		
Avocado	-	-	-	-	-	-	-	-		
Bananas	-	-	-	-	-	-	-	-		
Guava	-	-	-	-	-	-	-	-		
Lemons	-	-	-	-	-	-	-	-		
Mangoes	-	-	-	-	-	-	-	-		
Oranges	-	-	-	-	-	-	-	-		
Papayas	-	-	-	-	-	-	-	-		
Pineapples	-	-	-	-	-	-	-	-		
Cash crops	-	-	-	-	-	-	-	-		
Chat	-	-	-	-	-	-	-	-		
Coffee	-	-	-	-	-	-	-	-		
Tea	-	-	-	-	-	-	-	-		
Hops / 'Gesho'	-	-	-	-	-	-	-	-		
Enset	-	-	-	-	-	-	-	-		
Sugar cane	-	-	-	-	-	-	-	-		
Cotton	7885	716	-	-	336	18	-	-		
Other Permanent crops	14	-	-	-	-	-	-	-		

Table 5.2 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Meher (Main) Season

Afar Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	600	1552	60	64	10117	6903	9672	3811
Grain crops	-	-	-	-	156	4	1344	72
Cereals	-	-	-	-	30	2	1332	71
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	30	2	1332	71
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	126	2	12	1
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	126	2	12	1
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	2	-	6	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	2	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	6	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	600	1552	60	64	-	-	-	-
Fruit crops	49	145	49	46	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	24	56	24	18	-	-	-	-
Oranges	25	89	25	28	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	540	1350	-	-	-	-	-	-
Cotton	-	-	-	-	9959	6899	8322	3739
Other Permanent crops	11	56	11	18	-	-	-	-

Table 5.2 Contd

Afar Region		Meher Season							
Crop Type	Chemicals						Others		
	Pesticide		Fungicides		Herbicides				
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	
Total	16748	1849	2527	104	78	4	-	-	
Grain crops	-	-	-	-	-	-	-	-	
Cereals	-	-	-	-	-	-	-	-	
Teff	-	-	-	-	-	-	-	-	
Barley	-	-	-	-	-	-	-	-	
Wheat	-	-	-	-	-	-	-	-	
Maize	-	-	-	-	-	-	-	-	
Sorghum	-	-	-	-	-	-	-	-	
Finger millet	-	-	-	-	-	-	-	-	
Oats / 'Aja'	-	-	-	-	-	-	-	-	
Rice	-	-	-	-	-	-	-	-	
Pulse	-	-	-	-	-	-	-	-	
Horse / Faba beans	-	-	-	-	-	-	-	-	
Field Peas	-	-	-	-	-	-	-	-	
Haricot beans	-	-	-	-	-	-	-	-	
Chick peas	-	-	-	-	-	-	-	-	
Lentils	-	-	-	-	-	-	-	-	
Vetch / Grass peas	-	-	-	-	-	-	-	-	
Soya beans	-	-	-	-	-	-	-	-	
Fenugreek	-	-	-	-	-	-	-	-	
Gibto	-	-	-	-	-	-	-	-	
Oilseeds	-	-	-	-	-	-	-	-	
Niger seed/neug/	-	-	-	-	-	-	-	-	
Linseed	-	-	-	-	-	-	-	-	
Groundnuts	-	-	-	-	-	-	-	-	
Safflower	-	-	-	-	-	-	-	-	
Sesame	-	-	-	-	-	-	-	-	
Rape seed	-	-	-	-	-	-	-	-	
Vegetables	-	-	-	-	-	-	-	-	
Lettuce	-	-	-	-	-	-	-	-	
Head cabbage	-	-	-	-	-	-	-	-	
Ethiopian cabbage	-	-	-	-	-	-	-	-	
Tomatoes	-	-	-	-	-	-	-	-	
Green peppers	-	-	-	-	-	-	-	-	
Red peppers	-	-	-	-	-	-	-	-	
Swiss chard	-	-	-	-	-	-	-	-	
Root crops	-	-	-	-	-	-	-	-	
Beetroot	-	-	-	-	-	-	-	-	
Carrot	-	-	-	-	-	-	-	-	
Onion	-	-	-	-	-	-	-	-	
Potatoes	-	-	-	-	-	-	-	-	
Garlic	-	-	-	-	-	-	-	-	
Taro 'Godere'	-	-	-	-	-	-	-	-	
Sweet potatoes	-	-	-	-	-	-	-	-	
Other Temporary crops	-	-	-	-	-	-	-	-	
Permanent crops	702	21	127	3	78	4	-	-	
Fruit crops	25	1	127	3	64	3	-	-	
Avocado	-	-	-	-	-	-	-	-	
Bananas	-	-	-	-	-	-	-	-	
Guava	-	-	-	-	-	-	-	-	
Lemons	-	-	-	-	-	-	-	-	
Mangoes	-	-	77	2	38	2	-	-	
Oranges	25	1	50	-	25	1	-	-	
Papayas	-	-	-	-	-	-	-	-	
Pineapples	-	-	-	-	-	-	-	-	
Cash crops	-	-	-	-	-	-	-	-	
Chat	-	-	-	-	-	-	-	-	
Coffee	-	-	-	-	-	-	-	-	
Tea	-	-	-	-	-	-	-	-	
Hops / 'Gesho'	-	-	-	-	-	-	-	-	
Enset	-	-	-	-	-	-	-	-	
Sugar cane	662	20	-	-	-	-	-	-	
Cotton	16046	1828	2400	101	-	-	-	-	
Other Permanent crops	14	-	-	-	14	1	-	-	

Table 5.3 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Meher (Main) Season

Amhara Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	15995	16278	16262	17155	16000	17586	93312	6751
Grain crops	15107	15135	15439	16185	14706	5859	91417	6215
Cereals	12689	14684	13252	14484	13697	5144	29356	2814
Teff	115	8	314	104	182	47	431	90
Barley	-	-	-	-	-	-	-	-
Wheat	2340	1920	2334	3557	2334	2592	4	1
Maize	10233	12755	10573	10821	11078	2253	268	86
Sorghum	-	-	32	2	103	251	28590	2574
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	1	-	-	-	-	-	63	62
Pulse	1435	247	1939	1327	822	698	1659	392
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	40	20	43	35	48	34	200	110
Chick peas	-	-	-	-	147	131	176	156
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	1396	227	1896	1292	628	533	1283	126
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	983	204	248	374	187	17	60402	3009
Niger seed/neug/	-	-	-	-	-	-	833	71
Linseed	-	-	-	-	-	-	109	4
Groundnuts	-	-	-	-	2	1	5	1
Safflower	-	-	-	-	-	-	8	1
Sesame	734	83	-	-	184	17	59199	2895
Rape seed	248	121	248	374	-	-	248	37
Vegetables	822	1043	823	970	837	11591	217	9
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	40	5581	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	1	-	57	5581	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	822	1043	822	970	740	429	217	9
Swiss chard	-	-	-	-	-	-	-	-
Root crops	67	100	-	-	4	-	67	10
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	67	100	-	-	4	-	67	10
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	73	17
Permanent crops	-	-	-	-	12	38	-	-
Fruit crops	-	-	-	-	4	8	-	-
Avocado	-	-	-	-	2	6	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	1	2	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	7	18	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	7	18	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	1	12	-	-
Cotton	-	-	-	-	441	98	1538	498
Other Permanent crops	-	-	-	-	-	-	-	-

Table 5.3 Contd

Amhara Region		Meher Season							
Crop Type	Chemicals						Others		
	Pesticide		Fungicides		Herbicides				
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	
Total	2610	28	334	9	35639	809	151	420	
Grain crops	1962	12	36	0	35575	807	-	-	
Cereals	1152	6	-	-	33940	761	-	-	
Teff	-	-	-	-	141	2	-	-	
Barley	-	-	-	-	-	-	-	-	
Wheat	384	2	-	-	1433	14	-	-	
Maize	625	4	-	-	5945	186	-	-	
Sorghum	143	-	-	-	26418	558	-	-	
Finger millet	-	-	-	-	-	-	-	-	
Oats / 'Aja'	-	-	-	-	-	-	-	-	
Rice	-	-	-	-	3	-	-	-	
Pulse	223	3	-	-	770	25	-	-	
Horse / Faba beans	-	-	-	-	-	-	-	-	
Field Peas	-	-	-	-	-	-	-	-	
Haricot beans	40	-	-	-	56	2	-	-	
Chick peas	-	-	-	-	71	1	-	-	
Lentils	-	-	-	-	-	-	-	-	
Vetch / Grass peas	-	-	-	-	-	-	-	-	
Soya beans	184	3	-	-	643	22	-	-	
Fenugreek	-	-	-	-	-	-	-	-	
Gibto	-	-	-	-	-	-	-	-	
Oilseeds	587	3	36	-	865	21	-	-	
Niger seed/neug/	-	-	-	-	166	7	-	-	
Linseed	-	-	-	-	-	-	-	-	
Groundnuts	-	-	-	-	-	-	-	-	
Safflower	-	-	-	-	-	-	-	-	
Sesame	587	3	36	-	519	7	-	-	
Rape seed	-	-	-	-	180	8	-	-	
Vegetables	309	2	97	3	-	-	-	-	
Lettuce	-	-	-	-	-	-	-	-	
Head cabbage	-	-	33	1	-	-	-	-	
Ethiopian cabbage	-	-	-	-	-	-	-	-	
Tomatoes	-	-	33	2	-	-	-	-	
Green peppers	-	-	-	-	-	-	-	-	
Red peppers	309	2	30	-	-	-	-	-	
Swiss chard	-	-	-	-	-	-	-	-	
Root crops	-	-	201	6	-	-	-	-	
Beetroot	-	-	-	-	-	-	-	-	
Carrot	-	-	-	-	-	-	-	-	
Onion	-	-	201	6	-	-	-	-	
Potatoes	-	-	-	-	-	-	-	-	
Garlic	-	-	-	-	-	-	-	-	
Taro 'Godere'	-	-	-	-	-	-	-	-	
Sweet potatoes	-	-	-	-	-	-	-	-	
Other Temporary crops	-	-	-	-	-	-	-	-	
Permanent crops	-	-	-	-	-	-	-	-	
Fruit crops	-	-	-	-	-	-	-	-	
Avocado	-	-	-	-	-	-	-	-	
Bananas	-	-	-	-	-	-	-	-	
Guava	-	-	-	-	-	-	-	-	
Lemons	-	-	-	-	-	-	-	-	
Mangoes	-	-	-	-	-	-	-	-	
Oranges	-	-	-	-	-	-	-	-	
Papayas	-	-	-	-	-	-	-	-	
Pineapples	-	-	-	-	-	-	-	-	
Cash crops	-	-	-	-	-	-	-	-	
Chat	-	-	-	-	-	-	-	-	
Coffee	-	-	-	-	-	-	-	-	
Tea	-	-	-	-	-	-	-	-	
Hops / 'Geshe'	-	-	-	-	-	-	-	-	
Enset	-	-	-	-	-	-	-	-	
Sugar cane	-	-	-	-	-	-	-	-	
Cotton	339	13	-	-	63	1	151	420	
Other Permanent crops	-	-	-	-	-	-	-	-	

Table 5.4 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Meher (Main) Season

Oromiya Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	85311	58935	101129	93334	75391	91470	33404	32495
Grain crops	53410	27936	70424	67349	53355	77546	32534	32465
Cereals	51986	25979	63536	58519	45827	74771	27499	29899
Teff	242	121	366	241	27	15	642	287
Barley	-	-	13	13	2827	3718	6	2
Wheat	39032	12599	50410	45681	30567	56935	19915	27207
Maize	12509	13174	12533	12458	12389	14100	1344	668
Sorghum	177	74	105	59	-	-	5320	1481
Finger millet	26	11	26	11	17	2	56	11
Oats / 'Aja'	-	-	83	55	-	-	216	243
Rice	-	-	-	-	-	-	-	-
Pulse	522	247	1112	789	1333	1525	2429	2195
Horse / Faba beans	-	-	-	-	692	765	9	7
Field Peas	6	9	6	8	4	2	4	6
Haricot beans	138	106	262	215	193	156	267	139
Chick peas	-	-	88	48	388	538	119	65
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	32	6
Soya beans	378	133	756	518	57	64	1998	1971
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	902	1710	5776	8041	6195	1250	2606	371
Niger seed/neug/	-	-	9	3	39	3	385	73
Linseed	-	-	105	53	-	-	105	53
Groundnuts	-	-	-	-	-	-	19	15
Safflower	-	-	-	-	-	-	6	1
Sesame	902	1710	1090	1126	-	-	2092	227
Rape seed	-	-	4573	6859	6156	1246	-	-
Vegetables	391	294	420	649	551	14	186	21
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	25	38	5	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	267	184	267	446	475	1	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	124	110	129	165	70	12	186	21
Swiss chard	-	-	-	-	-	-	-	-
Root crops	113	277	113	210	156	539	12	2
Beetroot	2	-	2	-	2	-	-	-
Carrot	2	1	2	-	2	-	-	-
Onion	88	240	88	177	122	5	12	2
Potatoes	21	36	21	32	26	532	-	-
Garlic	-	-	-	-	5	2	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	469	802	553	763	730	332	55	8
Permanent crops	30353	29389	29619	24363	20599	13042	617	-
Fruit crops	511	99	511	84	1205	-	2	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	374	23	374	21	1203	-	2	-
Oranges	19	4	19	4	-	-	-	-
Papayas	118	72	118	59	-	-	-	-
Pineapples	-	-	-	-	2	-	-	-
Cash crops	10515	12656	10961	8486	647	-	615	-
Chat	-	-	-	-	-	-	-	-
Coffee	10515	12656	10961	8486	647	-	615	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	19319	16631	18139	15789	18747	13042	-	-
Cotton	576	238	-	-	-	-	-	-
Other Permanent crops	8	4	8	4	-	-	-	-

Table 5.4 Contd

Oromiya Region		Meher Season							
Crop Type	Chemicals						Others		
	Pesticide		Fungicides		Herbicides				
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	
Total	12114	1683	47891	356	120735	2149	3020	3646	
Grain crops	6000	58	26447	164	84001	952	317	285	
Cereals	2504	21	25207	157	82179	921	317	285	
Teff	-	-	-	-	407	5	-	-	
Barley	1427	5	868	4	1794	45	-	-	
Wheat	-	-	23946	147	69962	586	-	-	
Maize	1020	16	310	5	9304	270	317	285	
Sorghum	57	-	-	-	534	13	-	-	
Finger millet	-	-	-	-	13	-	-	-	
Oats / 'Aja'	-	-	83	-	166	1	-	-	
Rice	-	-	-	-	-	-	-	-	
Pulse	688	5	68	1	1269	22	-	-	
Horse / Faba beans	310	2	-	-	230	5	-	-	
Field Peas	8	-	8	-	-	-	-	-	
Haricot beans	11	2	30	-	-	-	-	-	
Chick peas	327	2	-	-	57	1	-	-	
Lentils	-	-	-	-	-	-	-	-	
Vetch / Grass peas	-	-	-	-	-	-	-	-	
Soya beans	32	-	30	-	982	16	-	-	
Fenugreek	-	-	-	-	-	-	-	-	
Gibto	-	-	-	-	-	-	-	-	
Oilseeds	2808	32	1172	6	553	9	-	-	
Niger seed/neug/	-	-	-	-	-	-	-	-	
Linseed	-	-	-	-	-	-	-	-	
Groundnuts	-	-	-	-	-	-	-	-	
Safflower	-	-	-	-	-	-	-	-	
Sesame	-	-	-	-	209	3	-	-	
Rape seed	2808	32	1172	6	344	5	-	-	
Vegetables	1196	17	811	22	58	2	45	77	
Lettuce	-	-	-	-	-	-	-	-	
Head cabbage	1	-	-	-	1	-	-	-	
Ethiopian cabbage	-	-	-	-	-	-	-	-	
Tomatoes	1123	17	811	22	-	-	45	77	
Green peppers	-	-	-	-	-	-	-	-	
Red peppers	72	1	-	-	57	2	-	-	
Swiss chard	-	-	-	-	-	-	-	-	
Root crops	386	30	344	12	75	3	-	-	
Beetroot	-	-	-	-	-	-	-	-	
Carrot	-	-	-	-	-	-	-	-	
Onion	366	10	344	12	12	-	-	-	
Potatoes	-	-	-	-	63	3	-	-	
Garlic	-	-	-	-	-	-	-	-	
Taro 'Godere'	-	-	-	-	-	-	-	-	
Sweet potatoes	21	21	-	-	-	-	-	-	
Other Temporary crops	2424	18	1481	36	4	-	574	1051	
Permanent crops	1291	1486	18806	124	34869	1182	2084	2234	
Fruit crops	239	1382	487	3	104	5	19	76	
Avocado	-	-	-	-	-	-	-	-	
Bananas	-	-	-	-	-	-	-	-	
Guava	5	1380	-	-	-	-	-	-	
Lemons	-	-	-	-	-	-	-	-	
Mangoes	11	-	11	1	23	1	-	-	
Oranges	213	2	357	1	82	4	19	76	
Papayas	10	-	119	1	-	-	-	-	
Pineapples	-	-	-	-	-	-	-	-	
Cash crops	340	5	-	-	12945	236	264	1845	
Chat	-	-	-	-	-	-	-	-	
Coffee	340	5	-	-	12945	236	264	1845	
Tea	-	-	-	-	-	-	-	-	
Hops / 'Gesho'	-	-	-	-	-	-	-	-	
Enset	-	-	-	-	-	-	-	-	
Sugar cane	454	9	18139	118	20108	887	219	10	
Cotton	817	73	-	-	1727	10	-	-	
Other Permanent crops	257	89	180	3	1712	54	1583	303	

Table 5.5 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Meher (Main) Season

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	484	373	463	195	98	101	64	9
Grain crops	50	29	38	33	45	18	32	7
Cereals	50	29	38	33	41	14	24	5
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	1	1	-	-
Wheat	1	1	1	1	2	2	8	3
Maize	45	27	33	29	32	11	15	2
Sorghum	4	1	4	3	6	1	1	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	4	4	3	1
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	1	-	2	1
Haricot beans	-	-	-	-	1	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	2	4	1	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	5	1
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	1	1
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	4	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	42	34	38	37	26	20	31	2
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	1	1	-	-	-	-	1	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	23	18	23	22	20	12	9	-
Green peppers	18	15	15	15	-	-	18	2
Red peppers	-	-	-	-	6	8	3	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	11	18	6	6	19	36	1	-
Beetroot	-	-	-	-	1	5	-	-
Carrot	-	-	-	-	3	9	-	-
Onion	11	18	6	6	14	17	1	-
Potatoes	-	-	-	-	1	5	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	381	293	381	120	9	26	-	-
Fruit crops	159	282	159	115	5	22	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	1	-	-	-
Lemons	-	-	-	-	1	1	-	-
Mangoes	1	1	1	1	-	-	-	-
Oranges	158	281	158	114	1	-	-	-
Papayas	-	-	-	-	2	20	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	2	2	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	2	2	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Geshe'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other Permanent crops	222	11	222	5	1	3	-	-

Table 5.5 Contd

Somalie Region		Meher Season							
Crop Type	Chemicals								Others
	Pesticide		Fungicides		Herbicides				
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	
Total	191	30	141	6	-	-	-	-	
Grain crops	7	8	10	-	-	-	-	-	
Cereals	4	-	10	-	-	-	-	-	
Teff	-	-	-	-	-	-	-	-	
Barley	-	-	-	-	-	-	-	-	
Wheat	-	-	-	-	-	-	-	-	
Maize	4	-	10	-	-	-	-	-	
Sorghum	-	-	-	-	-	-	-	-	
Finger millet	-	-	-	-	-	-	-	-	
Oats / 'Aja'	-	-	-	-	-	-	-	-	
Rice	-	-	-	-	-	-	-	-	
Pulse	2	8	-	-	-	-	-	-	
Horse / Faba beans	-	-	-	-	-	-	-	-	
Field Peas	-	-	-	-	-	-	-	-	
Haricot beans	-	-	-	-	-	-	-	-	
Chick peas	-	-	-	-	-	-	-	-	
Lentils	-	-	-	-	-	-	-	-	
Vetch / Grass peas	-	-	-	-	-	-	-	-	
Soya beans	2	8	-	-	-	-	-	-	
Fenugreek	-	-	-	-	-	-	-	-	
Gibto	-	-	-	-	-	-	-	-	
Oilseeds	1	-	-	-	-	-	-	-	
Niger seed/neug/	-	-	-	-	-	-	-	-	
Linseed	-	-	-	-	-	-	-	-	
Groundnuts	-	-	-	-	-	-	-	-	
Safflower	-	-	-	-	-	-	-	-	
Sesame	1	-	-	-	-	-	-	-	
Rape seed	-	-	-	-	-	-	-	-	
Vegetables	68	11	59	2	-	-	-	-	
Lettuce	-	-	-	-	-	-	-	-	
Head cabbage	1	-	-	-	-	-	-	-	
Ethiopian cabbage	-	-	-	-	-	-	-	-	
Tomatoes	33	3	27	1	-	-	-	-	
Green peppers	32	1	32	1	-	-	-	-	
Red peppers	2	8	-	-	-	-	-	-	
Swiss chard	-	-	-	-	-	-	-	-	
Root crops	36	10	22	1	-	-	-	-	
Beetroot	-	-	-	-	-	-	-	-	
Carrot	2	4	-	-	-	-	-	-	
Onion	34	6	22	1	-	-	-	-	
Potatoes	-	-	-	-	-	-	-	-	
Garlic	-	-	-	-	-	-	-	-	
Taro 'Godere'	-	-	-	-	-	-	-	-	
Sweet potatoes	-	-	-	-	-	-	-	-	
Other Temporary crops	-	-	-	-	-	-	-	-	
Permanent crops	80	1	50	4	-	-	-	-	
Fruit crops	80	1	50	4	-	-	-	-	
Avocado	-	-	-	-	-	-	-	-	
Bananas	-	-	-	-	-	-	-	-	
Guava	-	-	-	-	-	-	-	-	
Lemons	-	-	-	-	-	-	-	-	
Mangoes	-	-	-	-	-	-	-	-	
Oranges	80	1	50	4	-	-	-	-	
Papayas	-	-	-	-	-	-	-	-	
Pineapples	-	-	-	-	-	-	-	-	
Cash crops	-	-	-	-	-	-	-	-	
Chat	-	-	-	-	-	-	-	-	
Coffee	-	-	-	-	-	-	-	-	
Tea	-	-	-	-	-	-	-	-	
Hops / 'Geshe'	-	-	-	-	-	-	-	-	
Enset	-	-	-	-	-	-	-	-	
Sugar cane	-	-	-	-	-	-	-	-	
Cotton	-	-	-	-	-	-	-	-	
Other Permanent crops	-	-	-	-	-	-	-	-	

Table 5.6 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Meher (Main) Season

Benishangul-Gumuz Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP		Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts				
Total	1052	1025	473	376	1200	271	2343	485
Grain crops	1031	1009	454	359	1190	269	2303	476
Cereals	1031	1009	356	335	1077	240	603	140
Teff	-	-	-	-	-	-	27	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	57	60
Maize	1031	1009	356	335	1077	240	87	24
Sorghum	-	-	-	-	-	-	431	55
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	2	-
Pulse	-	-	38	9	38	26	284	237
Horse / Faba beans	-	-	-	-	-	-	6	3
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	38	9	38	26	278	234
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	60	15	75	3	1416	99
Niger seed/neug/	-	-	-	-	-	-	261	21
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	3	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	60	15	75	3	1152	77
Rape seed	-	-	-	-	-	-	-	-
Vegetables	21	17	20	17	3	-	39	10
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	3	-	-	-
Green peppers	-	-	-	-	-	-	3	-
Red peppers	21	17	20	17	-	-	36	10
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	2	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	2	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	6	3	-	-
Permanent crops	-	-	-	-	-	-	2	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Geshe'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other Permanent crops	-	-	-	-	-	-	2	-

Table 5.6 Contd

Benishangul-Gumuz Region

Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	602	27	-	-	428	237	720	1416
Grain crops	578	22	-	-	428	237	720	1416
Cereals	420	4	-	-	428	237	720	1416
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	420	4	-	-	315	236	720	1416
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	113	1	-	-
Pulse	30	1	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	30	1	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	128	17	-	-	-	-	-	-
Niger seed/neug/	68	3	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	60	14	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	17	5	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	17	5	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	8	-	-	-	-	-	-	-
Fruit crops	2	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	2	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other Permanent crops	6	-	-	-	-	-	-	-

Table 5.7 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Meher (Main) Season

S.N.N.P.R

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP		Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts				
Total	24143	18344	17227	13560	19144	16062	7901	4092
Grain crops	14408	8556	8859	5853	16979	15626	5195	1980
Cereals	14155	8455	8662	5696	15438	14604	3251	1504
Teff	289	76	335	157	295	73	473	160
Barley	-	-	-	-	-	-	-	-
Wheat	38	38	38	38	41	77	-	-
Maize	13801	8331	8269	5497	14990	14435	1786	587
Sorghum	-	-	-	-	92	6	716	397
Finger millet	-	-	-	-	-	-	37	9
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	28	11	20	4	20	13	240	351
Pulse	253	101	197	157	1419	1006	1038	392
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	253	101	187	145	1396	985	926	327
Chick peas	-	-	-	-	5	7	53	15
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	10	12	18	14	59	51
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	122	16	906	84
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	110	15	321	32
Sesame	-	-	-	-	12	1	585	52
Rape seed	-	-	-	-	-	-	-	-
Vegetables	417	646	282	378	356	29	566	42
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	14	27	-	-	14	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	246	430	125	201	171	3	90	16
Green peppers	-	-	-	-	-	-	-	-
Red peppers	157	189	157	177	172	26	475	26
Swiss chard	-	-	-	-	-	-	-	-
Root crops	112	336	57	208	97	143	206	143
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	101	230	57	208	44	4	57	8
Potatoes	-	-	-	-	13	13	9	27
Garlic	-	-	-	-	-	-	63	1
Taro 'Godere'	11	106	-	-	25	121	-	-
Sweet potatoes	-	-	-	-	15	6	78	106
Other Temporary crops	147	430	26	68	9	-	469	830
Permanent crops	8312	7991	8004	7054	2	-	140	93
Fruit crops	156	670	51	51	-	-	3	-
Avocado	-	-	-	-	-	-	-	-
Bananas	105	211	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	3	-
Pineapples	51	459	51	51	-	-	-	-
Cash crops	7841	6727	7639	6176	-	-	118	-
Chat	50	189	-	-	-	-	-	-
Coffee	7791	6538	7639	6176	-	-	118	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	15	89
Sugar cane	75	189	75	214	-	-	-	-
Cotton	746	384	-	-	1702	264	1324	1005
Other Permanent crops	239	405	239	613	2	-	3	3

Table 5.7 Contd

S.N.N.P.R

Meher Season

Crop Type	Chemicals								Others	
	Pesticide		Fungicides		Herbicides					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts		
Total	16327	1544	1081	310	38462	2516	13701	13427		
Grain crops	1296	13	416	12	6221	2226	-	-		
Cereals	1107	11	227	11	6221	2226	-	-		
Teff	83	1	-	-	-	-	-	-		
Barley	-	-	-	-	-	-	-	-		
Wheat	-	-	-	-	-	-	-	-		
Maize	1024	10	219	11	5816	2219	-	-		
Sorghum	-	-	-	-	256	4	-	-		
Finger millet	-	-	-	-	37	1	-	-		
Oats / 'Aja'	-	-	-	-	-	-	-	-		
Rice	-	-	9	-	111	3	-	-		
Pulse	53	1	53	-	-	-	-	-		
Horse / Faba beans	-	-	-	-	-	-	-	-		
Field Peas	-	-	-	-	-	-	-	-		
Haricot beans	53	1	53	-	-	-	-	-		
Chick peas	-	-	-	-	-	-	-	-		
Lentils	-	-	-	-	-	-	-	-		
Vetch / Grass peas	-	-	-	-	-	-	-	-		
Soya beans	-	-	-	-	-	-	-	-		
Fenugreek	-	-	-	-	-	-	-	-		
Gibto	-	-	-	-	-	-	-	-		
Oilseeds	136	1	136	1	-	-	-	-		
Niger seed/neug/	-	-	-	-	-	-	-	-		
Linseed	-	-	-	-	-	-	-	-		
Groundnuts	-	-	-	-	-	-	-	-		
Safflower	-	-	-	-	-	-	-	-		
Sesame	136	1	136	1	-	-	-	-		
Rape seed	-	-	-	-	-	-	-	-		
Vegetables	496	17	322	4	-	-	-	-		
Lettuce	-	-	-	-	-	-	-	-		
Head cabbage	-	-	-	-	-	-	-	-		
Ethiopian cabbage	-	-	-	-	-	-	-	-		
Tomatoes	394	14	276	4	-	-	-	-		
Green peppers	-	-	-	-	-	-	-	-		
Red peppers	102	3	46	1	-	-	-	-		
Swiss chard	-	-	-	-	-	-	-	-		
Root crops	145	13	57	2	-	-	-	-		
Beetroot	-	-	-	-	-	-	-	-		
Carrot	-	-	-	-	-	-	-	-		
Onion	145	13	57	2	-	-	-	-		
Potatoes	-	-	-	-	-	-	-	-		
Garlic	-	-	-	-	-	-	-	-		
Taro 'Godere'	-	-	-	-	-	-	-	-		
Sweet potatoes	-	-	-	-	-	-	-	-		
Other Temporary crops	160	2	85	-	-	-	-	-		
Permanent crops	11201	1	126	1	32242	290	13701	13427		
Fruit crops	-	-	-	-	-	-	-	-		
Avocado	-	-	-	-	-	-	-	-		
Bananas	-	-	-	-	-	-	-	-		
Guava	-	-	-	-	-	-	-	-		
Lemons	-	-	-	-	-	-	-	-		
Mangoes	-	-	-	-	-	-	-	-		
Oranges	-	-	-	-	-	-	-	-		
Papayas	-	-	-	-	-	-	-	-		
Pineapples	-	-	-	-	-	-	-	-		
Cash crops	11201	1	126	1	30368	253	11815	8993		
Chat	-	-	-	-	-	-	-	-		
Coffee	11201	1	126	1	30368	253	11815	8993		
Tea	-	-	-	-	-	-	-	-		
Hops / 'Geshe'	-	-	-	-	-	-	-	-		
Enset	-	-	-	-	-	-	-	-		
Sugar cane	-	-	-	-	-	-	-	-		
Cotton	3029	1499	75	291	-	-	-	-		
Other Permanent crops	-	-	-	-	1874	37	1886	4434		

Table 5.8 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Meher (Main) Season

Gambella Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	1572	1137	1572	68	2998	503	137	22
Grain crops	-	-	-	-	66	22	137	22
Cereals	-	-	-	-	16	10	137	22
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	15	10	137	22
Sorghum	-	-	-	-	1	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	11	10	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	11	10	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	39	2	-	-
Niger seed/neugl/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	39	2	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	1572	1137	1572	68	-	-	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	1572	1137	1572	68	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	1572	1137	1572	68	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Geshe'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	2932	481	-	-
Other Permanent crops	-	-	-	-	-	-	-	-

Table 5.8 Contd

Gambella Region

Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	2982	109	-	-	10540	206	-	-
Grain crops	50	1	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	11	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	11	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	39	1	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	39	1	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	4716	5	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	4716	5	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	4716	5	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	2932	108	-	-	5824	201	-	-
Other Permanent crops	-	-	-	-	-	-	-	-

Table 5.9 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Meher (Main) Season
Dire Dawa City Administration

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	15	16	15	16	2	-	-	-
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	3	1	3	1	1	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	1	-	1	-	-	-	-	-
Green peppers	1	-	1	-	1	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	1	-	1	-	-	-	-	-
Root crops	1	-	1	-	1	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	1	-	1	-	1	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	1	-	1	-	-	-	-	-
Permanent crops	10	15	10	15	-	-	-	-
Fruit crops	9	14	9	14	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	1	-	1	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	7	13	7	13	-	-	-	-
Papayas	1	1	1	1	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other Permanent crops	1	-	1	-	-	-	-	-

Table 5.9 Contd

Dire Dawa City Administration

Meher Season

Crop Type	Chemicals								Others
	Pesticide		Fungicides		Herbicides				
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	
Total	-	-	1	3	-	-	-	-	-
Grain crops	-	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-
Vegetables	-	-	1	3	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	1	3	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-	-	-
Fruit crops	-	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-	-
Hops / 'Geshe'	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-
Other Permanent crops	-	-	-	-	-	-	-	-	-

Table 6 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Belg Season

Ethiopia

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	348	308	459	351	1167	2955	1708	1010
Grain crops	250	238	371	245	1041	2874	1015	811
Cereals	94	136	162	177	1011	2860	560	108
Teff	4	4	4	4	3	1	59	11
Barley	1	-	1	-	-	-	1	1
Wheat	-	-	-	-	-	-	-	-
Maize	78	130	146	172	1008	2859	449	89
Sorghum	11	2	11	1	-	-	50	7
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	6	2	59	18	27	13	85	119
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	6	2	59	18	27	13	54	82
Chick peas	-	-	-	-	-	-	14	14
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	16	16
Fenugreek	-	-	-	-	-	-	1	7
Gibto	-	-	-	-	-	-	-	-
Oilseeds	150	100	150	50	3	1	370	584
Niger seed/neug/	-	-	-	-	-	-	6	5
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	150	100	150	50	3	1	364	579
Rape seed	-	-	-	-	-	-	-	-
Vegetables	71	60	62	34	37	40	17	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	2	2	2	3	-	-	2	-
Ethiopian cabbage	2	1	2	2	-	-	2	-
Tomatoes	12	21	3	3	1	-	9	-
Green peppers	3	3	3	3	1	-	2	-
Red peppers	52	33	52	23	35	40	2	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	10	9	9	10	2	11	55	59
Beetroot	-	-	-	-	-	-	-	-
Carrot	2	2	2	3	-	-	2	12
Onion	6	4	6	5	-	-	35	1
Potatoes	2	3	1	2	2	11	16	46
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	2	-
Other Temporary crops	17	-	17	61	86	32	621	140

Table 6 Contd

Crop Type	Ethiopia		Belg Season			
			Chemicals			
	Pesticide		Fungicides		Herbicides	
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	883	9	145	-	160	-
Grain crops	663	7	56	0	160	-
Cereals	610	7	3	-	10	-
Teff	-	-	3	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	610	7	-	-	-	-
Sorghum	-	-	-	-	10	-
Finger millet	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulse	53	-	53	-	-	-
Horse / Faba beans	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Haricot beans	53	-	53	-	-	-
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	-	-	-	-	150	-
Niger seed/neug/	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	150	-
Rape seed	-	-	-	-	-	-
Vegetables	65	1	2	-	-	-
Lettuce	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-
Tomatoes	4	-	2	-	-	-
Green peppers	3	-	-	-	-	-
Red peppers	58	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Root crops	4	-	2	-	-	-
Beetroot	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	4	-	2	-	-	-
Potatoes	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-
Other Temporary crops	151	2	85	-	-	-

Table 6.1 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Belg Season

Tigray Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	9	5	6	5	-	-	30	-
Grain crops	3	-	-	-	-	-	30	-
Cereals	3	-	-	-	-	-	30	-
Teff	-	-	-	-	-	-	30	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	3	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	2	2	2	2	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	1	1	1	1	-	-	-	-
Green peppers	1	1	1	1	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	4	3	4	3	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	4	3	4	3	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.1 Contd

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

Table 6.2 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Belg Season

Afar Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	-	-	-	-	667	2784	361	617
Grain crops	-	-	-	-	581	2753	361	617
Cereals	-	-	-	-	578	2752	240	48
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	578	2752	240	48
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	3	1	121	569
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	3	1	121	569
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	86	32	-	-

Table 6.2 Contd

Afar Region		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	
Total	610	7	-	-	-	-	
Grain crops	610	7	-	-	-	-	
Cereals	610	7	-	-	-	-	
Teff	-	-	-	-	-	-	
Barley	-	-	-	-	-	-	
Wheat	-	-	-	-	-	-	
Maize	610	7	-	-	-	-	
Sorghum	-	-	-	-	-	-	
Finger millet	-	-	-	-	-	-	
Oats / 'Aja'	-	-	-	-	-	-	
Rice	-	-	-	-	-	-	
Pulse	-	-	-	-	-	-	
Horse / Faba beans	-	-	-	-	-	-	
Field Peas	-	-	-	-	-	-	
Haricot beans	-	-	-	-	-	-	
Chick peas	-	-	-	-	-	-	
Lentils	-	-	-	-	-	-	
Vetch / Grass peas	-	-	-	-	-	-	
Soya beans	-	-	-	-	-	-	
Fenugreek	-	-	-	-	-	-	
Gibto	-	-	-	-	-	-	
Oilseeds	-	-	-	-	-	-	
Niger seed/neug/	-	-	-	-	-	-	
Linseed	-	-	-	-	-	-	
Groundnuts	-	-	-	-	-	-	
Safflower	-	-	-	-	-	-	
Sesame	-	-	-	-	-	-	
Rape seed	-	-	-	-	-	-	
Vegetables	-	-	-	-	-	-	
Lettuce	-	-	-	-	-	-	
Head cabbage	-	-	-	-	-	-	
Ethiopian cabbage	-	-	-	-	-	-	
Tomatoes	-	-	-	-	-	-	
Green peppers	-	-	-	-	-	-	
Red peppers	-	-	-	-	-	-	
Swiss chard	-	-	-	-	-	-	
Root crops	-	-	-	-	-	-	
Beetroot	-	-	-	-	-	-	
Carrot	-	-	-	-	-	-	
Onion	-	-	-	-	-	-	
Potatoes	-	-	-	-	-	-	
Garlic	-	-	-	-	-	-	
Taro 'Godere'	-	-	-	-	-	-	
Sweet potatoes	-	-	-	-	-	-	
Other Temporary crops	-	-	-	-	-	-	

Table 6.3 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Belg Season

Amhara Region

Amhara Region								
Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP		Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts				
Total	6	2	73	103	118	37	194	41
Grain crops	6	2	73	103	115	26	161	40
Cereals	6	2	73	103	115	26	65	16
Teff	-	-	-	-	-	-	25	6
Barley	1	-	1	-	-	-	1	1
Wheat	-	-	-	-	-	-	-	-
Maize	5	2	72	103	115	26	28	8
Sorghum	-	-	-	-	-	-	10	1
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	16	19
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	1	1
Chick peas	-	-	-	-	-	-	13	11
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	1	7
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	80	5
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	80	5
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	1	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	1	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	2	11	33	1
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	33	1
Potatoes	-	-	-	-	2	11	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.3 Contd

Amhara Region		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	
Total	-	-	-	-	10	-	
Grain crops	-	-	-	-	10	-	
Cereals	-	-	-	-	10	-	
Teff	-	-	-	-	-	-	
Barley	-	-	-	-	-	-	
Wheat	-	-	-	-	-	-	
Maize	-	-	-	-	-	-	
Sorghum	-	-	-	-	10	-	
Finger millet	-	-	-	-	-	-	
Oats / 'Aja'	-	-	-	-	-	-	
Rice	-	-	-	-	-	-	
Pulse	-	-	-	-	-	-	
Horse / Faba beans	-	-	-	-	-	-	
Field Peas	-	-	-	-	-	-	
Haricot beans	-	-	-	-	-	-	
Chick peas	-	-	-	-	-	-	
Lentils	-	-	-	-	-	-	
Vetch / Grass peas	-	-	-	-	-	-	
Soya beans	-	-	-	-	-	-	
Fenugreek	-	-	-	-	-	-	
Gibto	-	-	-	-	-	-	
Oilseeds	-	-	-	-	-	-	
Niger seed/neug/	-	-	-	-	-	-	
Linseed	-	-	-	-	-	-	
Groundnuts	-	-	-	-	-	-	
Safflower	-	-	-	-	-	-	
Sesame	-	-	-	-	-	-	
Rape seed	-	-	-	-	-	-	
Vegetables	-	-	-	-	-	-	
Lettuce	-	-	-	-	-	-	
Head cabbage	-	-	-	-	-	-	
Ethiopian cabbage	-	-	-	-	-	-	
Tomatoes	-	-	-	-	-	-	
Green peppers	-	-	-	-	-	-	
Red peppers	-	-	-	-	-	-	
Swiss chard	-	-	-	-	-	-	
Root crops	-	-	-	-	-	-	
Beetroot	-	-	-	-	-	-	
Carrot	-	-	-	-	-	-	
Onion	-	-	-	-	-	-	
Potatoes	-	-	-	-	-	-	
Garlic	-	-	-	-	-	-	
Taro 'Godere'	-	-	-	-	-	-	
Sweet potatoes	-	-	-	-	-	-	
Other Temporary crops	-	-	-	-	-	-	

Table 6.4 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Belg Season

Oromiya Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	275	280	266	147	70	25	183	65
Grain crops	231	228	231	116	69	25	173	20
Cereals	75	126	75	65	63	16	16	8
Teff	4	4	4	4	3	1	4	5
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	60	120	60	60	60	15	-	-
Sorghum	11	2	11	1	-	-	12	3
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	6	2	6	1	6	9	1	3
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	6	2	6	1	6	9	-	-
Chick peas	-	-	-	-	-	-	1	3
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	150	100	150	50	-	-	156	9
Niger seed/neug/	-	-	-	-	-	-	6	5
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	150	100	150	50	-	-	150	4
Rape seed	-	-	-	-	-	-	-	-
Vegetables	38	46	30	24	1	-	3	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	1	2	1	3	-	-	1	-
Ethiopian cabbage	2	1	2	2	-	-	2	-
Tomatoes	9	18	-	-	1	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	27	25	27	19	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	6	6	5	7	-	-	7	45
Beetroot	-	-	-	-	-	-	-	-
Carrot	2	2	2	3	-	-	2	12
Onion	2	1	2	2	-	-	2	-
Potatoes	2	3	1	2	-	-	3	33
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.4 Contd

Oromiya Region		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
Total	59	1	7	-	150	-
Grain crops	-	-	3	-	150	-
Cereals	-	-	3	-	-	-
Teff	-	-	3	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulse	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	-	-	-	-	150	-
Niger seed/neug/	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	150	-
Rape seed	-	-	-	-	-	-
Vegetables	55	-	2	-	-	-
Lettuce	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-
Tomatoes	2	-	2	-	-	-
Green peppers	-	-	-	-	-	-
Red peppers	53	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Root crops	4	-	2	-	-	-
Beetroot	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	4	-	2	-	-	-
Potatoes	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-

Table 6.5 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Belg Season

Somalie Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	15	12	15	10	10	4	12	-
Grain crops	10	8	10	6	10	4	-	-
Cereals	10	8	10	6	10	4	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	10	8	10	6	10	4	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	5	4	5	4	-	-	12	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	1	-	1	-	-	-	1	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	2	2	2	2	-	-	9	-
Green peppers	2	2	2	2	-	-	2	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.5 Contd

Somalie Region	Belg Season					
	Chemicals					
	Pesticide		Fungicides		Herbicides	
Crop Type	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	5	-	-	-	-	-
Grain crops	-	-	-	-	-	-
Cereals	-	-	-	-	-	-
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulse	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-
Vegetables	5	-	-	-	-	-
Lettuce	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-
Tomatoes	2	-	-	-	-	-
Green peppers	3	-	-	-	-	-
Red peppers	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Root crops	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-

Table 6.6 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Belg Season

Benishangul Gumuz Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	-	-	-	-	-	-	91	26
Grain crops	-	-	-	-	-	-	89	26
Cereals	-	-	-	-	-	-	60	9
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	32	6
Sorghum	-	-	-	-	-	-	28	3
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	16	16
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	16	16
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	13	1
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	13	1
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	2	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	2	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.6 Contd

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

Table 6.7 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Belg Season

S.N.N.P.R								
Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	43	9	99	85	302	105	837	260
Grain crops	-	-	57	20	267	66	202	108
Cereals	-	-	4	3	246	62	149	27
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	4	3	246	62	149	27
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	53	17	21	4	53	81
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	53	17	21	4	53	81
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	26	9	26	4	35	40	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	26	9	26	4	35	40	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	14	13
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	13	13
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	2	-
Other Temporary crops	17	-	17	61	-	-	621	140

Crop Type	Chemicals					
	Pesticide		Fungicides		Herbicides	
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	209	2	138	-	-	-
Grain crops	53	-	53	-	-	-
Cereals	-	-	-	-	-	-
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulse	53	-	53	-	-	-
Horse / Faba beans	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Haricot beans	53	-	53	-	-	-
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-
Vegetables	5	-	-	-	-	-
Lettuce	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-
Red peppers	5	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Root crops	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-
Other Temporary crops	151	2	85	-	-	-

Table 6.8 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Belg Season

Gambella Region

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

Table 6.8 Contd

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

Table 6.9 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2008/09 (2001 E.C.), Belg Season

Dire Dawa City Administration

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

Table 6.9 Contd
Dire Dawa City Administration **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
Total	-	-	-	-	-	-
Grain crops	-	-	-	-	-	-
Cereals	-	-	-	-	-	-
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulse	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Root crops	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-

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)

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

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 II

Questionnaires

Appendix II

Central Statistical Agency Large and Medium Scale Commercial Farm Sample Survey 2008/09 (2001 E.C)

CF-Form 1/2001

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 2008/09 (2001 E.C.)

1	2	3	4	5	6	7	8	9	10
Sr. No	Crop Type	Code	Cropped Area		Production	Yield (Qts/Ha)	Crop Damage Yes=1 No=2	Is there Crop Damage?	
			From Interview method (In Hectare)	From GPS Reading (In Meter Square)	In Quintals			If Yes Reason	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 2008/09 (2001 E.C.)

1	2	3	4	5	6	7	8	9	10	
Sr. No	Crop Type	Cod e	Cropped Area		Production	Yield (Qts/ Ha)	Crop Damage Yes=1 No=2	Is there Crop Damge?		
			From Interview method (In Hectare)	From GPS Reading (In Meter Square)	In Quintals			If Yes Reason	Co de	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									

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Date _____

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