THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA
CENTRAL STATISTICAL AUTHORITY

AGRICULTURAL SAMPLE SURVEY
2004 / 2005 (1997 E.C.)

(September 2004 – February 2005)

VOLUME I

REPORT ON

AREA AND PRODUCTION OF CROPS

(PRIVATE PEASANT HOLDINGS, MEHER SEASON)

Addis Ababa
May, 2005

CONTENTS

PAGE

PART I INTRODUCTION AND OBJECTIVES OF THE SURVEY……1

1.1 INTRODUCTION……..1
1.2 OBJECTIVES OF THE SURVEY…….2

PART II SURVEY METHODOLOGY, DATA COLLECTION AND PROCESSING…….....3

2.1 SCOPE AND COVERAGE OF THE SURVEY……..3
2.2 SAMPLING FRAME……3
2.3 SAMPLE DESIGN…… .. 3
2.4 ORGANIZATION OF FIELD WORK……..5
2.5 TRAINING OF FIELD STAFF…….5
2.6 METHOD OF DATA COLLECTION……..6
2.7 DATA PROCESSING……...7
a) Editing, Coding and Verification…….....7
b) Data Entry, Cleaning and Tabulation……...7
2.8 CONCEPTS AND DEFINITIONS……....7

PART III SUMMARY OF SURVEY RESULTS……11

AREA & PRODUCTION……...11

APPENDIX I ESTIMATION PROCEDURES OF TOTALS, RATIOS AND SAMPLING ERRORS …...87

APPENDIX II STANDARD ERRORS AND COEFFICIENTS OF VARIATION……..93
APPENDIX III NUMBER OF PLANNED AND ACTUALLY COVERED SAMPLING UNITS……107

APPENDIX IV QUESTIONNAIRES……...113

ABBREVIATIONS: CV – COEFFICIENT OF VARIATION
E.C. – ETHIOPIAN CALENDAR
S.N.N.P.R. – SOUTHERN NATIONS, NATIONALITIES AND PEOPLES' REGION

PART I

INTRODUCTION AND OBJECTIVES OF THE SURVEY

1.1. INTRODUCTION

Agriculture is core to the sustenance of food security, supply of raw materials and manufacturing industries especially agro-industries and it is a major source of export items in the country. This indicates that agriculture plays a vital role in the Ethiopian situation where millions of people are frequently haunted by drought and famine. The provision of adequate food to the needy people in Ethiopia exclusively depends on development of agriculture. Efforts are being intensified to bring about a perceptible change in the development of the agricultural sector to ensure a steady and adequate supply of food to those who need it.

To bridge the gap between the demand for food and food supply, and to guarantee the availability of food and attain the desired change in the lives of the farming population, the government has embarked upon a transformation of the existing agricultural practices in the country. The progress anticipated from this task has to be appraised, monitored and evaluated with agricultural development statistical information as an input to find out whether the desired changes have materialized.

To this end, the Central Statistical Authority (CSA) has been generating statistical information on the country's agriculture for the past twenty-four years. As part of this undertaking the 2004/05 (1997 E.C) Agricultural Sample Survey was conducted to furnish data on crop area and production of crops within the private peasant holdings for Meher Season of the cited year. The survey results are presented in this bulletin and other electronic media for any data user.

The report comprises three parts. Part I contains the objectives of this annual survey. Part II deals with coverage of the survey, sample design, field organization and method of data collection and Part III includes the survey findings. Estimation procedures and formulation of estimates of totals, ratios and variance are presented in Appendix I. Estimates of the

standard errors with the corresponding coefficients of variations for area and production of crops are presented in Appendix II. The numbers of agricultural households covered, number of parcels and fields measured and number of crop-cuttings performed is presented in appendix III and the survey questionnaires in Appendix IV.

1.2. **OBJECTIVES OF THE SURVEY**

The general objective of CSA's Agricultural Sample Survey (AgSS) is to collect basic quantitative information on the country's agriculture that is essential for planning, policy formulation, monitoring and evaluation of mainly food security and other agricultural activities. The AgSS is composed of four components: Crop Production Forecast Survey, Meher Season Survey, Livestock Survey and Belg Season Survey.

The specific objectives of Meher Season Survey are to estimate the total cultivated area, production and yield of crops and provide estimates of land use area and quantity of agricultural inputs for Meher Season agriculture in companion reports published separately. All reports are based on the private peasant holdings in sedentary rural areas of the country, further subdivided by regions and zones.

PART II

SURVEY METHODOLOGY, DATA COLLECTION AND PROCESSING

2.1. SCOPE AND COVERAGE OF THE SURVEY

The range of data items that the 2004/05 (1997 E.C) Annual Agricultural Sample Survey (Meher Season) dealt with includes all cereals, pulses and oilseeds and the most commonly grown vegetables, root crops and permanent (perennial) crops. Holders growing at least one or more of these crops are enumerated and data on crop area and yield recorded, hence data on production of these crops acquired. The Meher season survey covered the entire rural parts of the country except all zones of Gambella Region, and the non-sedentary population of three zones of Afar & six zones of Somali regions. Accordingly, the survey took into account all parts of Harari, Addis Ababa, Dire Dawa, and 58 Zones / Special weredas (that are treated as zones) of the other regions.

Initially, a total of 2,016 Enumeration Areas (EAs) were selected to be covered by the survey, however, due to various reasons that are beyond the control of the CSA two EAs were not covered and 2,014 EAs (99.90 %) were actually covered. As regards the ultimate sampling unit, it was planned to conduct the survey on 50,400 agricultural households but 50,287 (99.78 %) households were in fact covered by the Meher season agricultural sample survey. Distribution of the number of sampling units (planned and covered) by domain of estimation is tabulated in Appendix III.

2.2. SAMPLING FRAME

The list containing EAs of all regions and their respective agricultural households obtained from the 2001/02 Ethiopian Agricultural Sample Enumeration (EASE) was used as the sampling frame in order to select the primary sampling units (EAs). Consequently, all sample EAs were selected from this frame based on the design proposed for the survey.

2.3 SAMPLE DESIGN

A stratified two-stage cluster sample design was used to select the sample. Enumeration Areas (EAs) were taken to be the primary sampling units (PSUs) and the secondary sampling units (SSUs) were agricultural households. Sample enumeration areas from each

stratum were sub-samples of the 2001/02 (1994 E.C) Ethiopian Agricultural Sample Enumeration. They were selected using probability proportional to size systematic sampling; size being number of agricultural households obtained from the 1994 Population & Housing Census and adjusted for the sub-sampling effect. Within each sample EA a fresh list of households was prepared and 25 agricultural households from each sample EA were systematically selected at the second stage. The survey questionnaire was finally administered to the 25 agricultural households selected at the second stage. Information on area under crops and Meher season production of crops was obtained from the 25 households that were ultimately selected. It is important to note, however, that data on crop cutting were obtained only from fifteen sampled households.

The sample size for the 2004/05 agricultural sample survey was determined by taking into account both the required level of precision for the most important estimates within each domain and the amount of resources allocated to the survey. In order to reduce non-sampling errors, manageability of the survey in terms of quality and operational capability was also considered.

Except Harari, Addis Ababa and Dire Dawa, where each region as a whole was taken to be the domain of estimation; each zone of a region / special wereda was adopted as a stratum for which major findings of the survey are reported.

Estimation procedure for totals & ratios and their sampling errors are given in Appendix II. Estimates of standard errors and Coefficient of Variations for selected estimates are also presented in Appendix II.

Remark: As of the 2001/02 Ethiopian Agricultural Sample Enumeration, Addis Ababa City Administration had a total of 35 enumeration areas. However, during the 2004 Urban Economic Establishments Census it was found out that some of the rural enumeration areas (EAs) were part of the urban areas of the city. Consequently only 24 enumeration areas were left as the rural EAs of the City Administration. Therefore, the 2004/05 (1997 E.C) annual agricultural sample survey (Meher Season) covered all the 24 EAs with certainty. Hence, there could be great variation in estimates of area & crop production of the 2004/05 (1997 E.C) compared to that of the previous years.

2.4. ORGANIZATION OF FIELD WORK

The conduct of a survey cannot be executed without the arrangement of fieldwork. In recognition of this, the organization of fieldwork has been entrusted to the Department of Field Operations that liaises between the Head Office and the 25 Branch Statistical Offices spread across the regions. All Branch Offices took part in the survey execution especially in recruiting the enumerators, organizing the 2nd stage training, assigning the field staff to their sites of enumeration, supervising the data collection and retrieving completed questionnaires and submitting them to the Head Office for data processing.

The Branch Offices were also responsible in administering the financial and logistic aspects of the survey within their areas of operation. A total of 2176 enumerators, 414 field supervisors, 24 coordinators and 91 statisticians were involved in the data collection where on the average one supervisor was assigned to five enumeration areas for supervision of data collection. All the enumerators were supplied with the necessary survey equipment after the completion of the training to ensure the smooth operation of the survey. To facilitate the data collection activities, a total of 205 four-wheel drive vehicles were used.

2.5. TRAINING OF FIELD STAFF

The execution of a survey and quality of data acquired from the survey highly depend on the type of training given to the enumerators and supervisors and the consequent understanding of the tasks to be performed and the standard procedures to be followed by the enumerators and supervisors in the survey undertaking. The quality and completeness of data is ensured when the training meets its objective of producing responsible and fervent enumerators and supervisors.

In light of this point, the training was given to the field staff in two stages. The first stage training, which took place at the Head Quarters of CSA and lasted 10 days targeted staff from the Head Office, and senior field supervisors from Branch Statistical Offices. The staff that took part in the first stage training was then assigned to conduct similar training for the enumerators and other supervisors for fifteen days in all the twenty- five Branch Statistical Offices distributed across the country.

In the training the field staff was given detailed classroom instruction on how to collect data, method of area measurement, method of crop cutting, interviewing procedures, etc. The training also included field practice to reinforce the understanding of concepts, definitions and theories discussed in the classroom with regard to field measurement, crop cutting and interviewing methods.

2.6. METHOD OF DATA COLLECTION

The agricultural data for the year 2004/05(1997 E.C) was collected from sedentary rural peasant households by interviewing the selected agricultural holders and physically measuring their fields and performing crop cutting procedures to gather data on crop yields and other items of interest. The data obtained were recorded in various forms designed for this purpose. Instruments like measuring tape; compass, kitchen balance, scientific calculators and others were used during data collection for a timely and smooth acquisition of accurate data.

The procedures for measuring areas of crop and non - crop fields operated by the holders were performed for the 25 selected households from each sampled E.A. using measuring tapes and compasses. All fields under major temporary crops of each holder of the fifteen randomly selected households of the 25 sample households were classified by crop type and a crop field was randomly selected from each crop type for crop cutting to be performed. The crop cutting procedure consists of demarcation of a four meter by four meter plot randomly located in the selected field where the crop in the demarcated plot is to be harvested.

Following the enumerator's harvest of the crop demarcated and threshing, the crop is kept in bags with identification information (i.e. holder's number, parcel and field numbers). The crop stored in the bag is weighed immediately (green weight) after threshing and weighed again after two weeks of drying to simulate normal holder harvesting and drying practices. Both the green and dry weights are recorded on the respective forms.

2.7. DATA PROCESSING

a) Editing Coding and Verification

Statistical data editing plays an important role in ensuring the quality of the collected survey data. It minimizes the effects of errors introduced while collecting data in the field, hence the need for data editing, coding and verification. Although coding and editing are done by the enumerators and supervisors in the field, respectively, verification of this task is done at the Head Office. An editing, coding and verification instruction manual was prepared and reproduced for this purpose. Then 44 editors-coders and verifiers were trained for two days in editing, coding and verification using the aforementioned manual as a reference and teaching aid. The completed questionnaires were edited, coded and later verified on a 100 % basis before the questionnaires were passed over to the data entry unit. The editing, coding and verification exercise of all questionnaires took 40 days.

b) Data Entry, Cleaning and Tabulation

Before data entry, the Natural Resources and Agricultural Statistics Department prepared edit specification for the survey for use on personal computers for data consistency checking purposes. The data on the edited and coded questionnaires were then entered into personal computers. The data were then checked and cleaned using the edit specifications prepared earlier for this purpose. The data entry operation involved about 110 data encoders and it took 30 days to finish the job. Finally, summarization of the data was done on personal computers to produce statistical tables as per the tabulation plan.

2.8. CONCEPTS AND DEFINITIONS

Data items of agriculture have to be distinctly defined and identified, so that the information about the items becomes useful. The correct way of stating data items and related terms is a prerequisite for making standards and definitions for the collection and compilation of agricultural data. The purpose of using standard concepts and definitions is not only to provide quality data but also to ensure that the right items are enumerated and measured accurately to reflect the agricultural situation.

Standard concepts and definitions used in the survey help to maintain consistent enumeration and measurement of variables of interest. To achieve this, CSA communicates concepts and definitions to the field staff through training and instruction manuals. The concepts and definitions used in the survey included the following.

Enumeration Area (E.A): an enumeration area in the rural parts of the country is a locality that is, in most of the cases less than, and only in some cases equal to a farmers' association in geographical area and usually consists of 150-200 households.

Household: a household may be either:
a) a one person household, that is a person who makes provisions for his own living with out combining with any other person to form part of a multi- person household or
b) a multi-person household, that is, a group of two or more persons who live together and make common provisions for food and other essentials of living. The persons in the group may pool their incomes and have a common budget to a greater or lesser extent. They may be related or unrelated persons or a combination of both. These persons are taken as members of the household.

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

Agricultural Household: - a household is considered an agricultural household when at least one member of the household is engaged in growing crops and/or raising livestock in private or in combination with others.

Holding: - a holding is all the land and /or livestock kept, which is used wholly or partly for agricultural production and is operated as one legal entity by one person alone, or with others with out regard to management, organization, size or location.

Holder: - a holder is a person who exercises management control over the operation of the agricultural holding and makes the major decision regarding the utilization of the available resources. He/she has primary technical and economic responsibility for the holding. He/she

may operate the holding directly as an owner or a manager. Under conditions of traditional agricultural holding the holder may be regarded as the person, who with or with out the help of others, operates land and/or raises livestock in his/ her own right, i.e. the person who decides on which, where, when, and how to grow crops or raise livestock or both and has the right to determine the utilization of the products.

Parcel: - a parcel of holding is any piece of land entirely surrounded by land and/or water and/or road and/or forest etc., which is not part of the holding. It may consist of one or more cadastral units, plots or fields adjacent to each other.

Field: - a field is defined as any plot of land which is a parcel or part of a parcel under the same or mixed crops or any other form of private holding.

Crop: includes cereals, pulses, oilseeds, vegetables, root crops, fruits coffee, Enset, Chat, hops, sugarcane, cotton, tobacco, etc produced for food, making drinks, stimulation and making fabrics or clothing.

Crop production: - the process of growing and harvesting of the above crops for own consumption and/or sale.

Temporary/Annual Crops: - 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 (Perennial) 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, bananas, etc) and trees for beverages (i.e. coffee, tea, hops (Gesho), etc) are considered permanent crops but meadows and pastures are excluded.

Meher (Main) Season Crop: -any temporary crop harvested between Meskerm (September) and Yekatit (February) is considered as meher season crop.

Belg Season Crop: - any temporary crop harvested between the months of Megabit (March) and Nehase (August) is considered to be Belg Season Crop.

PART III

SUMMARY OF SURVEY RESULTS

3.1 AREA & PRODUCTION

By and large, agriculture in Ethiopia is subsistence. This is particularly true to the major food crops grown in the country and covered in the survey. The major food crops are produced in almost all regions of the country in spite of the variation in volume of production across the regions. The variation may be attributed to the extent of area devoted to each crop type, weather change and a shift in preference for the crops grown.

The food crops on which data is collected are the ones that are commonly grown by the majority of peasant holders. In the statistical tables these crops have been categorized into eight groups for simplicity of description and comparison purposes. The groups are cereals, pulses, oilseeds, vegetables, root crops, fruit crops, stimulant crops and sugar cane. Stimulant crops consist of Chat, coffee and hops.

3.1.1 Cereals: - these are the major food crops both in terms of the area they are planted to and volume of production obtained. They are produced in larger volume compared with other crops because they are the principal staple crops. Cereals are grown in all the regions with varying quantity as shown in the survey results. The data in Table 1 well underpins this finding of the survey.

Out of the total grain crop area, 78% (more than seven and half million hectares) was under cereals. Teff, wheat and maize took up 22% (more than two million hectares), 14% (more than one million hectares) and 14% (more than one million hectares) of the grain crop area, respectively. As to production, the tables paint the same picture as that of the area. Cereals contributed 84% (more than 100 million quintals) of the grain production. Maize, wheat and Teff made up 20% (about 24 million quintals), 18% (about 22 million quintals) and 17% (more than 20 million quintals) of the grain production.

Table 1 - Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Ethiopia

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	10,443,717	9,811,070	119,068,102	
Cereals	10,145,607	7,637,524	100,308,355	
Teff	4,857,682	2,135,553	20,255,214	9.48
Barley	3,902,139	1,095,436	13,280,520	12.12
Wheat	3,937,682	1,398,215	21,766,030	15.57
Maize	6,677,356	1,392,916	23,941,622	17.19
Sorghum	3,674,865	1,253,620	17,159,543	13.69
Finger millet	1,114,407	312,931	3,328,038	10.64
Oats / 'Aja'	327,734	45,131	566,754	12.56
Rice	16,936	*	*	*
Pulses	6,169,683	1,349,116	13,495,792	
Faba beans	3,358,747	463,174	5,519,838	11.92
Field peas	1,604,211	254,365	2,283,354	8.98
Haricot beans	2,353,250	245,597	2,113,471	8.61
Chick-peas	666,100	167,569	1,615,951	9.64
Lentils	643,636	76,642	545,550	7.12
Grass peas	489,389	112,425	1,250,284	11.12
Soya beans	33,823	2,606	8,335	3.20
Fenugreek	479,676	16,325	115,803	7.09
Gibto	69,688	10,413	43,205	4.15
Oilseeds	3,200,742	824,430	5,263,955	
Neug	1,182,283	358,828	1,872,135	5.22
Linseed	1,267,738	250,702	1,518,640	6.06
Groundnuts	169,600	27,084	290,532	10.73
Safflower	175,690	9,715	70,392	7.25
Sesame	463,741	136,220	1,153,882	8.47
Rape seed	816,876	41,881	358,375	8.56
Vegetables	4,648,517	94,334	4,320,041	
Lettuce	37,164	235	*	*
Head cabbage	244,192	2,120	152,082	71.73
Ethiopian cabbage	2,704,205	27,143	2,624,554	96.69
Tomatoes	137,775	2,919	361,549	123.85
Green peppers	794,229	4,783	442,729	92.56
Red peppers	1,540,837	56,991	724,655	12.72
Swiss chard	79,744	142	6,801	47.77
Root crops	4,572,949	156,205	16,152,041	
Beetroot	319,762	1,486	164,801	110.91
Carrot	138,208	1,741	178,954	102.79
Onion	951,709	17,980	2,296,776	127.74
Potatoes	1,171,582	51,698	5,097,155	98.60
Garlic	1,902,636	13,657	1,967,414	144.06
Taro / 'Godere'	801,418	24,169	1,926,110	79.69
Sweet potatoes	1,087,638	45,474	4,520,833	99.42
Fruit crops	2,127,310	46,464	2,634,023	
Avocados	459,513	3,248	167,398	51.54
Bananas	1,355,438	28,695	1,818,293	63.37
Guavas	166,546	1,055	11,762	11.15
Lemons	143,442	851	10,087	11.85
Mangoes	414,574	5,814	301,715	51.89
Oranges	347,869	3,098	173,748	56.08
Papayas	404,021	2,714	150,878	55.58
Pineapples	*	*	143	*
Chat	1,836,225	120,304	975,207	8.11
Coffee	2,587,522	260,201	1,561,707	6.00
Hops	1,609,860	21,943	260,495	11.87
Sugar cane	789,522	18,601	1,274,281	68.51

Fig. 2 Area Under Crops, 2004/05 (1997 E.C)

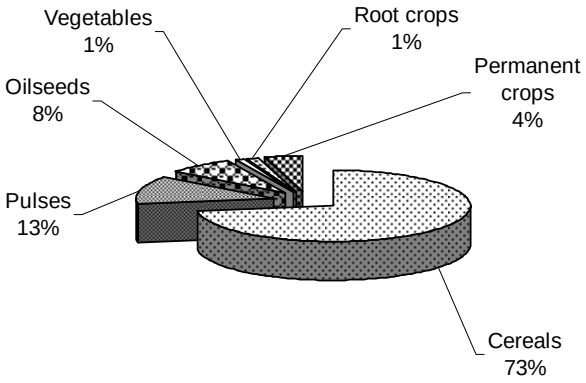
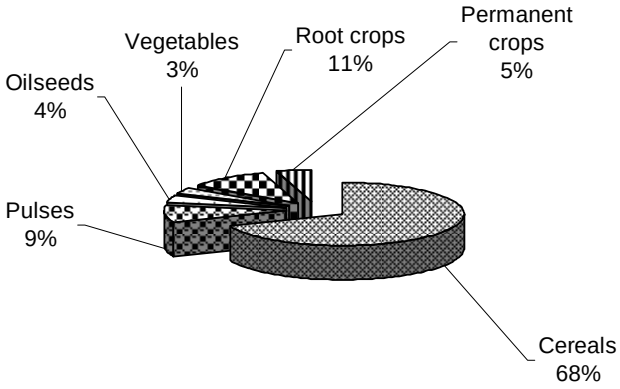


Fig. 3 Production of Crops, 2004/05 (1997 E.C)



3.1.2 Pulses: - The survey results show that the private peasant holders grow various crops for own consumption and/ or economic benefits. Pulses are also among the various crops produced in all the regions of the country after cereals. Pulses are grown in different volumes across the country as indicated in Table 1.

Pulses grown in 2004 / 05 (1997 E.C) covered 14% (more than one million hectares) of the grain crop area and 11% (more than 13 million quintals) of the grain production was drawn from the same crops. Faba beans, field peas and haricot beans were planted to 5% (more than 463 thousand hectares), 3% (more than 254 thousand hectares) and 3% (about 246 thousand hectares) of the grain crop area. The production obtained from the same crops was 5% (more than five and half million quintals), 2% (more than two million quintals) and 2% (more than two million quintals) of the grain production, in the same order.

3.1.3 Oilseeds: - these are crops grown to flavour the food consumed at home and earn some cash for peasant holders in the country. Various oil crops are produced in all the regions with differing quantity as illustrated in the survey results. Table 1 underscores this point in detail.

Oilseeds added 8% (more than 800 thousand hectares) of the grain crop area and 4% (more than five million quintals) of the production to the national total. Neug, linseed and sesame covered 4% (about 359 thousand hectares), about 3% (nearly 251 thousand hectares) and 1% (more than 136 thousand hectares) of the grain crop area and 2% (nearly 2 million quintals), about 1% (more than one and half million quintals) and 1% (more than one million quintals) of the grain production.

3.1.4 Vegetables- holders living on the peripheries of urban centres largely practice vegetable farming. Most vegetables are not commonly practiced by the rural private peasant holders, hence the small volume of production recorded as well evidenced by the survey results. Statistical Table 1 underlines this more in the report.

Vegetables took up nearly 1% of the area under all crops at national level. Of all the area under vegetables 60% and 29% was under red peppers and Ethiopian Cabbage. As to production of vegetables, 17% and 61% was that of the same crops, in that order.

3.1.5 Root Crops - Some root crops like onion and garlic are indispensable to improve the taste and scent of the food we eat. Others like potatoes, sweet potatoes and taro/ Godere are among the list of major food crops that are consumed across the country. These and other economic importances prompt the peasant holders to grow many of the root crops as shown in the survey findings. Table 1 substantiates this point in more details.

Root crops covered more than 1% of the area under all crops in the country. Potatoes, sweet potatoes and taro ('Godere') added 33%, 29% and 15% of the area to the root crop total. The same crops and onion contributed 32%, 28%, 12% and 14% to the root crop production total in the same order.

3.1.6 Fruit Crops – The survey findings show that fruit crops grown by the private peasant holders cover only a small token area and production in the country. The number of holders practicing fruit farming is much less than that of grains or cereals as indicated in the tables.

More than 46 thousand hectares of land is under fruit crops in Ethiopia. Bananas contributed about 62% of the fruit crop area followed by mangoes that contributed more than 13% of the area. More than two and half million quintals of fruits were produced in the country. Bananas and mangoes took up 69% and 11% of the fruit production, respectively, as shown in Table 1.

3.1.7 Stimulant crops – Farmers engaged in growing and producing stimulant crops such as coffee and Chat are greater in number than those growing fruits. The area and production of these crops are also larger than that of fruits since they earn a considerable amount of cash for the holders. Table 1 shows coffee and Chat shared about 65% and 30% of the stimulant crop area and 56% and 35% of the production in this category, respectively.

3.1.8 Sugar Cane- is grown in small areas in some parts of the country within the private peasant holdings. Its volume of production is also small. The survey data substantiates these points as shown in Table 1. More than 18 thousand hectares of land was under sugar cane in the country, yielding more than a million quintals of produce.

Table 2 - Estimate of Area and Production of Grain Crops for 2003/2004 (1996 E.C) and 2004/2005 (1997 E.C), Mehere Season

Region	Area in hectare			Production in quintal		
	2003 / 04 (1996 E.C)	2004 / 05 (1997 E.C)	% Change	2003 / 04 (1996 E.C)	2004 / 05 (1997 E.C)	% Change
TIGRAY	592,156	674,551	13.91	6,530,625	6,316,303	-3.28
AFAR	13,247	12,311	-7.07	262,048	167,503	-36.08
AMHARA	3,168,181	3,374,253	6.50	33,801,387	37,623,470	11.31
OROMIA	3,808,081	4,574,889	20.14	50,865,974	62,321,656	22.52
SOMALI	70,501	72,130	2.31	563,854	446,486	-20.82
BENISHANGUL-GUMUZ	147,151	166,285	13.00	1,522,008	1,698,970	11.63
S.N.N.P.R.	822,470	913,209	11.03	9,606,248	10,271,639	6.93
GAMBELA	9,707	-	-	-	-	-
HARARI	7,638	7,594	-0.58	65,862	45,689	-30.63
ADDIS ABABA	22,979	8,211	-64.27	266,705	126,179	-52.69
DIRE DAWA	7,184	7,638	6.32	79,419	50,206	-36.78
ALL	8,669,295	9,838,763	13.49	103,564,132	119,343,715	15.24

Fig. 1 - Area and Production of Grain Crops by Region, 2004/05 (1997 E.C)

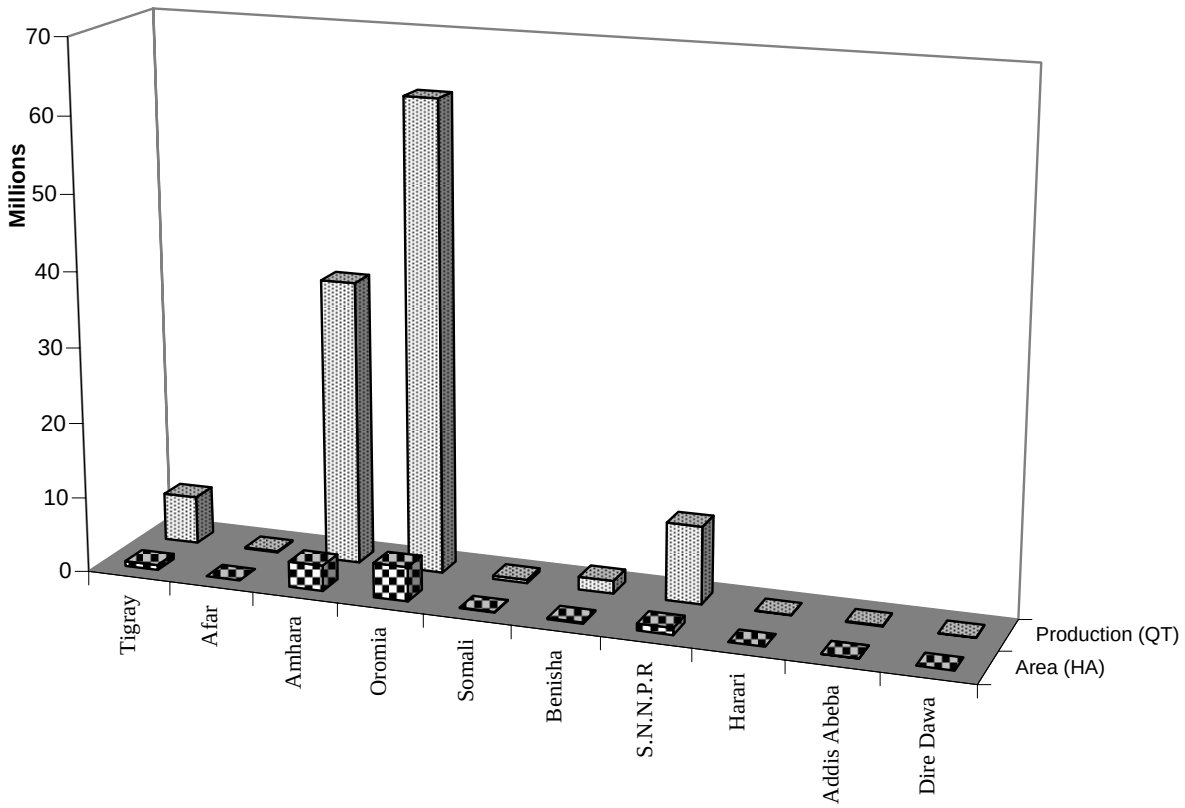


Table 3 - Estimate of Area, Production and Yield of Crops for
2003/2004 (1996 E.C) and 2004/2005 (1997 E.C), Mhere Season

Ethiopia

	Area in hectare			Production in quintal			Yield (quintal / hectare)		
Crop	2003 / 04 (1996 E.C)	2004 / 05 (1997 E.C)	% Change	2003 / 04 (1996 E.C)	2004 / 05 (1997E.C)	% Change	2003 / 04 (1996 E.C)	2004 / 05 (1997 E.C)	% Change
Grain crops	8,669,295	9,811,070	13.17	103,564,132	119,068,102	14.97			
Cereals	6,998,977	7,637,524	9.12	90,062,375	100,308,355	11.38			
Teff	1,989,068	2,135,553	7.36	16,773,480	20,255,214	20.76	8.43	9.48	12.46
Barley	920,127	1,095,436	19.05	10,796,861	13,280,520	23.00	11.73	12.12	3.32
Wheat	1,098,907	1,398,215	27.24	16,144,412	21,766,030	34.82	14.69	15.57	5.99
Maize	1,367,115	1,392,916	1.89	25,429,653	23,941,622	-5.85	18.6	17.19	-7.58
Sorghum	1,283,654	1,253,620	-2.34	17,424,536	17,159,543	-1.52	13.57	13.69	0.88
Finger millet	304,758	312,931	2.68	3,051,014	3,328,038	9.08	10.01	10.64	6.29
Oats / 'Aja'	30,048	45,131	50.20	387,337	566,754	46.32	12.89	12.56	-2.56
Rice	*	*	*	*	*	*	*	*	
Pulses	1,099,535	1,349,116	22.70	10,373,131	13,495,792	30.10			
Faba beans	381,988	463,174	21.25	4,268,917	5,519,838	29.30	11.18	11.92	6.62
Field peas	211,564	254,365	20.23	1,703,653	2,283,354	34.03	8.05	8.98	11.55
Haricot beans	183,752	245,597	33.66	1,721,529	2,113,471	22.77	9.37	8.61	-8.11
Chick-peas	154,281	167,569	8.61	1,359,299	1,615,951	18.88	8.81	9.64	9.42
Lentils	52,062	76,642	47.21	352,748	545,550	54.66	6.78	7.12	5.01
Grass peas	82,713	112,425	35.92	789,545	1,250,284	58.36	9.55	11.12	16.44
Soya beans	1,027	2,606	153.75	4,574	8,335	82.23	4.46	3.20	-28.25
Fenugreek	17,133	16,325	-4.72	124,540	115,803	-7.02	7.27	7.09	-2.48
Gibto	15,016	10,413	-30.65	48,326	43,205	-10.60	3.22	4.15	28.88
Oilseeds	570,783	824,430	44.44	3,128,626	5,263,955	68.25			
Neug	281,718	358,828	27.37	1,189,950	1,872,135	57.33	4.22	5.22	23.70
Linseed	142,899	250,702	75.44	773,634	1,518,640	96.30	5.41	6.06	12.01
Groundnuts	20,217	27,084	33.97	207,150	290,532	40.25	10.25	10.73	4.68
Safflower	8,401	9,715	15.64	50,427	70,392	39.59	6	7.25	20.83
Sesame	91,527	136,220	48.83	614,621	1,153,882	87.74	6.72	8.47	26.04
Rape seed	26,021	41,881	60.95	292,844	358,375	22.38	11.25	8.56	-23.91
Vegetables	82,333	94,334	14.58	3,879,469	4,320,041	11.36			
Lettuce	130	235	80.77	*	*	*	*	*	
Head cabbage	1,843	2,120	15.03	85,776	152,082	77.30	46.54	71.73	54.13
Eth. Cabbage	22,377	27,143	21.30	2,135,915	2,624,554	22.88	95.45	96.69	1.30
Tomatoes	3,761	2,919	-22.39	548,707	361,549	-34.11	145.9	123.85	-15.11
Green peppers	4,471	4,783	6.98	413,870	442,729	6.97	92.57	92.56	-0.01
Red peppers	49,611	56,991	14.88	669,078	724,655	8.31	13.49	12.72	-5.71
Swiss chard	140	142	1.43	10,746	6,801	-36.71	76.57	47.77	-37.61
Root crops	158,731	156,205	-1.59	16,055,245	16,152,041	0.60			
Beetroot	1,216	1,486	22.20	140,955	164,801	16.92	115.88	110.91	-4.29
Carrot	1,108	1,741	57.13	100,232	178,954	78.54	90.48	102.79	13.61
Onion	17,017	17,980	5.66	2,166,893	2,296,776	5.99	127.34	127.74	0.31
Potatoes	54,603	51,698	-5.32	5,097,150	5,097,155	0.00	93.35	98.60	5.62
Garlic	9,465	13,657	44.29	1,353,939	1,967,414	45.31	143.05	144.06	0.71
Taro / 'Godere'	28,380	24,169	-14.84	2,224,646	1,926,110	-13.42	78.39	79.69	1.66
Sweet potatoes	46,942	45,474	-3.13	4,971,428	4,520,833	-9.06	105.91	99.42	-6.13
Fruit crops	44,338	46,464	4.79	2,495,902	2,634,023	5.53			
Avocados	2,938	3,248	10.55	172,007	167,398	-2.68	58.54	51.54	-11.96
Bananas	29,083	28,695	-1.33	1,751,497	1,818,293	3.81	60.22	63.37	5.23
Guavas	1,063	1,055	-0.75	11,942	11,762	-1.51	11.23	11.15	-0.71
Lemons	735	851	15.78	9,661	10,087	4.41	13.15	11.85	-9.89
Mangoes	4,964	5,814	17.12	292,283	301,715	3.23	58.88	51.89	-11.87
Oranges	2,533	3,098	22.31	126,118	173,748	37.77	49.78	56.08	12.66
Papayas	2,371	2,714	14.47	132,039	150,878	14.27	55.68	55.58	-0.18
Pineapples	*	*	*	*	143	*	*	*	
Chat	111,578	120,304	7.82	933,398	975,207	4.48	8.37	8.11	-3.11
Coffee	232,439	260,201	11.94	1,261,880	1,561,707	23.76	5.43	6.00	10.50
Hops	20,792	21,943	5.54	249,204	260,495	4.53	11.99	11.87	-1.00
Sugar cane	14,292	18,601	30.15	997,600	1,274,281	27.73	69.8	68.51	-1.85

Table 4 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Tigray Region

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	672,747	674,551	6,316,303	
Cereals	667,243	566,228	5,348,822	
Teff	395,681	137,360	881,765	6.42
Barley	370,776	95,453	777,795	8.15
Wheat	287,946	87,785	859,005	9.79
Maize	394,632	47,200	539,183	11.42
Sorghum	270,380	142,038	1,838,667	12.94
Finger millet	211,686	55,595	451,476	8.12
Oats / 'Aja'	3,880	*	*	*
Rice	*	*	-	-
Pulses	333,829	52,411	483,354	
Horse beans	198,316	18,727	235,751	12.59
Field peas	72,476	7,782	77,245	9.93
Haricot beans	29,709	2,643	11,750	4.45
Chick-peas	44,443	10,498	77,701	7.40
Lentils	47,553	5,979	40,122	6.71
Vetch	31,440	6,062	38,109	6.29
Soya beans	1,236	75	-	-
Fenugreek	23,862	626	2,676	4.27
Gibto	*	*	-	-
Oilseeds	206,838	55,913	484,127	
Neug	54,254	9,266	65,558	7.08
Linseed	98,488	9,759	43,017	4.41
Groundnuts	1,068	38	-	-
Safflower	2,161	*	*	*
Sesame	76,345	36,773	375,457	10.21
Rape seed	3,451	29	-	-
Vegetables	189,253	2,051	93,489	
Lettuce	8,598	14	956	66.64
Head cabbage	9,906	66	2,425	36.87
Ethiopian cabbage	3,774	18	*	*
Tomatoes	22,987	352	49,076	139.43
Green peppers	45,513	313	26,032	83.30
Red peppers	120,594	1,268	12,961	10.22
Swiss chard	10,510	20	1,996	99.98
Root crops	118,771	2,502	291,727	
Beetroot	3,031	*	-	-
Carrot	5,507	*	*	*
Onion	56,409	1,165	124,208	106.59
Potatoes	34,256	461	45,906	99.60
Garlic	57,827	766	110,836	144.61
Taro / 'Godere'	-	-	-	-
Sweet potatoes	1,593	*	-	-
Fruit crops	26,005	106	1,158	
Avocados	*	*	-	-
Bananas	1,976	9	*	*
Guavas	6,295	25	-	-
Lemons	10,285	32	1,019	31.66
Mangoes	*	*	-	-
Oranges	5,385	21	-	-
Papayas	10,814	18	-	-
Pineapples	-	-	-	-
Chat	*	*	-	-
Coffee	4,604	26	-	-
Hops	114,913	1,544	62,920	40.75
Sugar cane	*	*	-	-

Table 4.1 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

North West Tigray

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	124,704	151,487	1,512,456	
Cereals	124,561	131,047	1,379,842	
Teff	79,108	27,309	200,440	7.34
Barley	10,400	500	1,863	3.73
Wheat	*	*	*	*
Maize	113,842	21,084	296,878	14.08
Sorghum	84,622	48,510	621,019	12.80
Finger millet	94,759	33,574	259,319	7.72
Oats / 'Aja'	*	*	-	-
Rice	-	-	-	-
Pulses	45,719	7,034	39,581	
Horse beans	22,583	1,943	13,842	7.13
Field peas	6,928	*	*	*
Haricot beans	*	*	*	*
Chick-peas	15,100	3,240	18,048	5.57
Lentils	*	*	-	-
Vetch	*	*	-	-
Soya beans	-	-	-	-
Fenugreek	*	*	-	-
Gibto	*	*	-	-
Oilseeds	56,926	13,406	93,032	
Neug	19,650	4,201	32,081	7.64
Linseed	14,881	1,296	6,298	4.86
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	29,182	7,889	54,653	6.93
Rape seed	*	*	-	-
Vegetables	77,960	763	7,437	
Lettuce	*	*	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	-	-	-	-
Tomatoes	3,125	*	-	-
Green peppers	3,763	25	-	-
Red peppers	74,872	713	7,437	10.43
Swiss chard	*	*	-	-
Root crops	11,396	*	-	
Beetroot	*	*	-	-
Carrot	*	*	-	-
Onion	9,091	*	-	-
Potatoes	*	*	-	-
Garlic	*	*	-	-
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	3,744	10	51	
Avocados	-	-	-	-
Bananas	-	-	-	-
Guavas	*	*	-	-
Lemons	1,682	2	51	28.71
Mangoes	-	-	-	-
Oranges	*	*	-	-
Papayas	2,113	6	-	-
Pineapples	-	-	-	-
Chat	-	-	-	-
Coffee	*	*	-	-
Hops	12,441	105	4,497	42.75
Sugar cane	*	*	-	-

Table 4.2 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Central Tigray

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	200,432	162,263	1,365,349	
Cereals	199,764	143,955	1,183,822	
Teff	155,619	44,763	303,461	6.78
Barley	129,495	20,893	207,514	9.93
Wheat	82,685	18,023	213,105	11.82
Maize	146,931	14,647	134,202	9.16
Sorghum	80,257	32,977	255,827	7.76
Finger millet	75,151	12,648	69,713	5.51
Oats / 'Aja'	-	-	-	-
Rice	*	*	-	-
Pulses	113,007	13,364	147,921	
Horse beans	89,849	7,991	105,737	13.23
Field peas	13,528	1,209	14,245	11.78
Haricot beans	13,199	567	3,117	5.50
Chick-peas	7,238	1,060	7,241	6.83
Lentils	15,397	1,592	10,557	6.63
Vetch	*	*	*	*
Soya beans	*	*	-	-
Fenugreek	9,832	175	1,470	8.42
Gibto	-	-	-	-
Oilseeds	51,014	4,944	33,607	
Neug	17,024	1,316	*	*
Linseed	31,373	2,715	19,705	7.26
Groundnuts	*	*	-	-
Safflower	*	*	-	-
Sesame	6,645	898	8,889	9.90
Rape seed	*	*	-	-
Vegetables	45,572	270	18,827	
Lettuce	2,665	4	455	117.63
Head cabbage	*	*	-	-
Ethiopian cabbage	*	*	*	*
Tomatoes	3,999	*	*	*
Green peppers	21,481	86	8,598	99.87
Red peppers	20,245	124	1,845	14.88
Swiss chard	3,147	4	444	119.77
Root crops	40,607	743	99,378	
Beetroot	2,307	3	-	-
Carrot	*	*	*	*
Onion	19,116	*	*	*
Potatoes	9,941	*	*	*
Garlic	26,445	256	37,113	144.90
Taro / 'Godere'	-	-	-	-
Sweet potatoes	-	-	-	-
Fruit crops	4,596	18	*	
Avocados	-	-	-	-
Bananas	*	*	-	-
Guavas	-	-	-	-
Lemons	2,512	*	*	*
Mangoes	-	-	-	-
Oranges	1,206	*	-	-
Papayas	1,871	1	-	-
Pineapples	-	-	-	-
Chat	-	-	-	-
Coffee	1,125	*	-	-
Hops	33,029	*	*	*
Sugar cane	-	-	-	-

Table 4.3 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

East Tigray

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	108,020	65,732	558,399	
Cereals	107,296	58,146	496,362	
Teff	36,734	7,794	58,982	7.57
Barley	98,221	25,691	223,088	8.68
Wheat	84,198	18,329	172,892	9.43
Maize	32,788	3,069	25,440	8.29
Sorghum	9,187	1,218	7,668	6.30
Finger millet	12,344	1,699	8,292	4.88
Oats / 'Aja'	*	*	-	-
Rice	-	-	-	-
Pulses	57,813	6,272	58,071	
Horse beans	32,011	1,504	24,698	16.42
Field peas	21,050	1,274	13,392	10.51
Haricot beans	*	*	-	-
Chick-peas	4,205	922	*	*
Lentils	8,316	480	6,471	13.48
Vetch	9,820	1,934	9,466	4.89
Soya beans	*	*	-	-
Fenugreek	4,594	41	66	1.60
Gibto	-	-	-	-
Oilseeds	17,118	1,314	3,966	
Neug	*	*	-	-
Linseed	16,134	1,272	3,966	3.12
Groundnuts	*	*	-	-
Safflower	*	*	-	-
Sesame	-	-	-	-
Rape seed	-	-	-	-
Vegetables	21,058	247	29,261	
Lettuce	3,570	5	501	100.01
Head cabbage	4,383	22	2,425	109.55
Ethiopian cabbage	2,638	16	-	-
Tomatoes	11,208	134	20,198	150.76
Green peppers	8,961	45	4,585	101.97
Red peppers	*	*	-	-
Swiss chard	5,074	12	1,551	127.99
Root crops	20,000	325	38,420	
Beetroot	*	*	-	-
Carrot	*	*	-	-
Onion	10,095	67	10,468	155.96
Potatoes	12,678	*	*	*
Garlic	2,997	12	1,800	150.17
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	2,993	*	-	
Avocados	-	-	-	-
Bananas	*	*	-	-
Guavas	*	*	-	-
Lemons	*	*	-	-
Mangoes	*	*	-	-
Oranges	1,931	*	-	-
Papayas	*	*	-	-
Pineapples	-	-	-	-
Chat	*	*	-	-
Coffee	*	*	-	-
Hops	26,862	214	9,263	43.21
Sugar cane	-	-	-	-

Table 4.4 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

South Tigray

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	184,387	219,289	1,944,877	
Cereals	182,237	191,092	1,719,911	
Teff	107,590	52,679	249,251	4.73
Barley	129,597	47,840	338,936	7.08
Wheat	118,167	51,020	472,685	9.26
Maize	59,072	5,271	37,442	7.10
Sorghum	49,144	33,602	620,665	18.47
Finger millet	2,753	236	-	-
Oats / 'Aja'	*	*	*	*
Rice	-	-	-	-
Pulses	100,326	23,837	215,845	
Horse beans	41,383	6,054	76,096	12.57
Field peas	29,688	4,255	44,883	10.55
Haricot beans	7,063	*	*	*
Chick-peas	14,831	4,781	42,179	8.82
Lentils	22,294	3,813	23,095	6.06
Vetch	14,775	3,138	23,090	7.36
Soya beans	*	*	-	-
Fenugreek	9,074	*	1,139	*
Gibto	-	-	-	-
Oilseeds	34,107	4,360	9,121	
Neug	1,202	*	-	-
Linseed	30,353	4,024	9,040	2.25
Groundnuts	*	*	-	-
Safflower	*	*	*	*
Sesame	*	*	-	-
Rape seed	*	*	-	-
Vegetables	23,881	482	32,819	
Lettuce	2,219	5	-	-
Head cabbage	4,782	41	-	-
Ethiopian cabbage	846	*	-	-
Tomatoes	4,339	*	*	*
Green peppers	8,531	*	*	*
Red peppers	6,291	*	*	*
Swiss chard	2,130	4	-	-
Root crops	42,190	1,155	149,194	
Beetroot	*	*	-	-
Carrot	*	*	*	*
Onion	17,916	455	59,305	130.29
Potatoes	11,478	173	14,912	86.40
Garlic	21,752	455	67,429	148.25
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	9,080	25	*	
Avocados	-	-	-	-
Bananas	*	*	*	*
Guavas	3,728	12	-	-
Lemons	*	*	*	*
Mangoes	*	*	-	-
Oranges	1,389	*	-	-
Papayas	5,180	9	-	-
Pineapples	-	-	-	-
Chat	*	*	-	-
Coffee	1,737	*	-	-
Hops	31,304	274	12,070	44.04
Sugar cane	-	-	-	-

Table 4.5 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Western Tigray

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	55,205	75,781	935,222	
Cereals	53,386	41,989	568,885	
Teff	16,631	4,814	69,630	14.46
Barley	3,062	*	*	*
Wheat	1,770	347	-	-
Maize	42,000	3,128	45,220	14.45
Sorghum	47,170	25,731	333,488	12.96
Finger millet	26,679	7,439	114,152	15.34
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	16,964	1,903	21,936	
Horse beans	12,489	1,235	15,377	12.45
Field peas	1,282	118	-	-
Haricot beans	1,649	45	303	6.80
Chick-peas	3,070	*	*	*
Lentils	*	*	-	-
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	-	-	-	-
Gibto	-	-	-	-
Oilseeds	47,673	31,889	344,401	
Neug	15,661	3,616	28,464	7.87
Linseed	5,747	452	4,008	8.87
Groundnuts	-	-	-	-
Safflower	*	*	*	*
Sesame	39,246	27,813	311,916	11.21
Rape seed	*	*	-	-
Vegetables	20,783	289	5,145	
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	*	*	-	-
Tomatoes	*	*	-	-
Green peppers	2,778	25	2,525	99.98
Red peppers	17,904	262	2,620	10.00
Swiss chard	-	-	-	-
Root crops	4,578	33	4,736	
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	*	*	*	*
Potatoes	-	-	-	-
Garlic	4,508	30	4,494	150.03
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	5,592	28	*	
Avocados	*	*	-	-
Bananas	*	*	-	-
Guavas	*	*	-	-
Lemons	4,515	*	*	*
Mangoes	-	-	-	-
Oranges	613	*	-	-
Papayas	1,364	2	-	-
Pineapples	-	-	-	-
Chat	*	*	-	-
Coffee	1,091	*	-	-
Hops	11,277	149	6,034	40.44
Sugar cane	*	-	-	-

Table 5 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Afar Region

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	12,296	12,311	167,503	
Cereals	11,324	10,420	150,536	
Teff	3,917	1,729	8,194	4.74
Barley	591	59	203	3.43
Wheat	*	*	*	*
Maize	9,713	6,863	131,311	19.13
Sorghum	3,896	1,725	10,779	6.25
Finger millet	*	*	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	2,791	434	1,431	
Horse beans	*	-	-	-
Field peas	-	-	-	-
Haricot beans	2,623	339	980	2.90
Chick-peas	419	92	450	4.91
Lentils	*	*	-	-
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	*	*	-	-
Gibto	-	-	-	-
Oilseeds	3,733	1,457	*	
Neug	241	5	*	*
Linseed	*	*	-	-
Groundnuts	-	-	-	-
Safflower	1,525	127	*	*
Sesame	3,323	1,324	*	*
Rape seed	-	-	-	-
Vegetables	1,568	38	244	
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	145	0	-	-
Tomatoes	*	*	-	-
Green peppers	543	5	-	-
Red peppers	938	13	244	19.19
Swiss chard	-	-	-	-
Root crops	1,038	*	*	
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	990	*	*	*
Potatoes	-	-	-	-
Garlic	-	-	-	-
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	1,046	*	-	
Avocados	-	-	-	-
Bananas	*	*	-	-
Guavas	-	-	-	-
Lemons	313	*	-	-
Mangoes	-	-	-	-
Oranges	*	*	-	-
Papayas	440	1	-	-
Pineapples	-	-	-	-
Chat	*	*	-	-
Coffee	*	*	-	-
Hops	325	6	-	-
Sugar cane	*	*	-	-

Table 5.1 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Zone 1

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	6,620	7,116	140,324	
Cereals	5,897	6,160	127,379	
Teff	-	-	-	-
Barley	*	*	-	-
Wheat	-	-	-	-
Maize	5,897	6,144	127,379	20.73
Sorghum	*	*	-	-
Finger millet	-	-	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	*	*	-	
Horse beans	-	-	-	-
Field peas	-	-	-	-
Haricot beans	*	*	-	-
Chick-peas	-	-	-	-
Lentils	-	-	-	-
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	-	-	-	-
Gibto	-	-	-	-
Oilseeds	*	*	*	
Neug	-	-	-	-
Linseed	-	-	-	-
Groundnuts	-	-	-	-
Safflower	-	-	-	-
Sesame	*	*	*	*
Rape seed	-	-	-	-
Vegetables	*	*	-	
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	-	-	-	-
Tomatoes	-	-	-	-
Green peppers	*	*	-	-
Red peppers	*	*	-	-
Swiss chard	-	-	-	-
Root crops	-	-	-	
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	-	-	-	-
Potatoes	-	-	-	-
Garlic	-	-	-	-
Taro / 'Godere'	-	-	-	-
Sweet potatoes	-	-	-	-
Fruit crops	*	*	-	
Avocados	-	-	-	-
Bananas	-	-	-	-
Guavas	-	-	-	-
Lemons	*	*	-	-
Mangoes	-	-	-	-
Oranges	*	*	-	-
Papayas	-	-	-	-
Pineapples	-	-	-	-
Chat	-	-	-	-
Coffee	-	-	-	-
Hops	-	-	-	-
Sugar cane	-	-	-	-

Table 5.2 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Zone 3

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	5,676	5,195	27,179	
Cereals	5,427	4,260	23,157	
Teff	3,917	1,729	8,194	4.74
Barley	582	48	203	4.22
Wheat	*	*	*	*
Maize	3,816	719	3,932	5.47
Sorghum	3,870	1,719	10,779	6.27
Finger millet	*	*	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	2,779	434	1,431	
Horse beans	*	-	-	-
Field peas	-	-	-	-
Haricot beans	2,612	339	980	2.90
Chick-peas	419	92	450	4.91
Lentils	*	*	-	-
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	*	*	-	-
Gibto	-	-	-	-
Oilseeds	2,855	501	2,591	
Neug	241	5	*	*
Linseed	*	*	-	-
Groundnuts	-	-	-	-
Safflower	1,525	127	*	*
Sesame	2,445	368	1,825	4.96
Rape seed	-	-	-	-
Vegetables	1,520	37	244	
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	145	0	-	-
Tomatoes	*	*	-	-
Green peppers	532	5	-	-
Red peppers	901	12	244	20.82
Swiss chard	-	-	-	-
Root crops	1,038	*	*	
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	990	*	*	*
Potatoes	-	-	-	-
Garlic	-	-	-	-
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	1,026	*	-	
Avocados	-	-	-	-
Bananas	*	*	-	-
Guavas	-	-	-	-
Lemons	*	*	-	-
Mangoes	-	-	-	-
Oranges	-	-	-	-
Papayas	440	1	-	-
Pineapples	-	-	-	-
Chat	*	*	-	-
Coffee	*	*	-	-
Hops	325	6	-	-
Sugar cane	*	*	-	-

Table 6 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Amhara Region

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	2,979,763	3,374,253	37,623,470	
Cereals	2,936,690	2,477,598	30,055,062	
Teff	1,839,987	852,307	8,136,514	9.55
Barley	1,475,667	375,912	3,989,652	10.61
Wheat	1,252,127	392,722	5,693,971	14.50
Maize	1,780,595	285,242	4,971,816	17.43
Sorghum	895,059	411,949	5,665,532	13.75
Finger millet	428,306	148,002	1,494,440	10.10
Oats / 'Aja'	91,850	8,496	103,136	12.14
Rice	12,701	*	-	-
Pulses	2,013,532	618,201	6,132,113	
Horse beans	1,395,656	223,218	2,709,289	12.14
Field peas	744,416	114,509	969,259	8.46
Haricot beans	318,883	47,389	307,568	6.49
Chick-peas	403,177	101,699	987,954	9.71
Lentils	359,028	51,632	369,483	7.16
Vetch	289,012	62,400	693,207	11.11
Soya beans	3,600	*	*	*
Fenugreek	167,879	6,943	51,826	7.46
Gibto	66,246	10,253	43,018	4.20
Oilseeds	1,327,748	278,454	1,436,295	
Neug	597,587	165,125	727,690	4.41
Linseed	449,087	43,749	139,222	3.18
Groundnuts	*	*	*	*
Safflower	130,372	7,515	62,963	8.38
Sesame	146,847	36,728	285,346	7.77
Rape seed	479,050	24,101	209,178	8.68
Vegetables	1,057,360	22,545	397,338	
Lettuce	6,942	*	-	-
Head cabbage	32,607	183	*	*
Ethiopian cabbage	167,665	799	71,336	89.30
Tomatoes	42,802	290	*	*
Green peppers	162,658	772	75,204	97.40
Red peppers	731,160	20,362	235,813	11.58
Swiss chard	19,087	32	*	*
Root crops	1,315,801	29,704	3,158,744	
Beetroot	34,495	121	*	*
Carrot	24,815	166	*	*
Onion	223,409	4,514	554,096	122.76
Potatoes	417,526	18,362	1,725,403	93.97
Garlic	1,004,944	5,988	849,246	141.83
Taro / 'Godere'	-	-	-	-
Sweet potatoes	23,035	*	2,636	*
Fruit crops	181,010	1,772	12,423	
Avocados	5,904	26	-	-
Bananas	48,636	422	2,223	5.27
Guavas	23,953	109	523	4.82
Lemons	51,033	300	*	*
Mangoes	13,940	*	-	-
Oranges	59,135	505	6,998	13.86
Papayas	51,520	290	2,128	7.33
Pineapples	-	-	-	-
Chat	117,251	2,676	12,916	4.83
Coffee	221,678	4,442	7,304	1.64
Hops	835,186	14,271	66,837	4.68
Sugar cane	55,751	820	2,002	2.44

Table 6.1 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

North Gondar

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	417,044	560,435	6,888,517	
Cereals	413,934	407,819	5,517,545	
Teff	215,395	103,592	1,031,794	9.96
Barley	150,917	50,124	529,226	10.56
Wheat	88,287	27,127	350,515	12.92
Maize	286,474	40,593	783,723	19.31
Sorghum	264,071	157,598	2,453,726	15.57
Finger millet	100,385	25,680	337,870	13.16
Oats / 'Aja'	14,546	*	*	*
Rice	2,034	*	-	-
Pulses	233,178	86,890	949,389	
Horse beans	169,424	31,411	384,261	12.23
Field peas	80,388	12,358	110,699	8.96
Haricot beans	23,986	*	*	*
Chick-peas	78,158	28,472	342,403	12.03
Lentils	13,162	1,936	13,287	6.86
Vetch	34,213	6,621	76,627	11.57
Soya beans	-	-	-	-
Fenugreek	16,608	1,672	12,390	7.41
Gibto	-	-	-	-
Oilseeds	220,427	65,726	421,583	
Neug	102,236	32,078	165,734	5.17
Linseed	65,037	5,597	23,304	4.16
Groundnuts	*	*	-	-
Safflower	29,052	2,291	21,534	9.40
Sesame	54,181	25,177	211,012	8.38
Rape seed	26,145	580	-	-
Vegetables	184,873	5,724	98,793	
Lettuce	*	*	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	*	*	*	*
Tomatoes	3,100	*	-	-
Green peppers	19,066	133	13,282	99.87
Red peppers	142,180	5,409	73,232	13.54
Swiss chard	*	*	-	-
Root crops	143,434	4,272	451,255	
Beetroot	*	*	-	-
Carrot	*	*	-	-
Onion	5,974	45	6,021	134.99
Potatoes	76,113	3,140	303,223	96.58
Garlic	101,420	1,002	142,012	141.75
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	14,276	*	562	
Avocados	-	-	-	-
Bananas	3,874	*	*	*
Guavas	-	-	-	-
Lemons	5,533	*	*	*
Mangoes	-	-	-	-
Oranges	-	-	-	-
Papayas	*	*	*	*
Pineapples	-	-	-	-
Chat	*	*	-	-
Coffee	24,710	485	672	1.39
Hops	68,679	*	*	*
Sugar cane	-	-	-	-

Table 6.2 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

South Gondar

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	379,533	465,598	3,253,113	
Cereals	376,199	333,483	2,494,712	
Teff	276,106	127,316	866,588	6.81
Barley	255,853	73,853	505,315	6.84
Wheat	191,036	54,736	412,680	7.54
Maize	238,682	30,963	330,212	10.66
Sorghum	79,284	20,518	194,522	9.48
Finger millet	89,651	23,504	184,595	7.85
Oats / 'Aja'	3,937	*	*	*
Rice	*	*	-	-
Pulses	268,840	87,831	619,063	
Horse beans	180,133	26,249	190,068	7.24
Field peas	104,116	18,989	94,193	4.96
Haricot beans	44,155	12,653	*	*
Chick-peas	51,262	14,776	112,499	7.61
Lentils	33,240	4,445	15,270	3.44
Vetch	32,560	7,996	104,193	13.03
Soya beans	-	-	-	-
Fenugreek	2,981	*	*	*
Gibto	20,924	2,650	13,252	5.00
Oilseeds	215,754	44,284	139,338	
Neug	118,330	29,491	98,620	3.34
Linseed	90,806	9,722	23,087	2.37
Groundnuts	*	*	-	-
Safflower	26,511	1,701	13,159	7.74
Sesame	*	*	-	-
Rape seed	83,198	3,355	4,472	1.33
Vegetables	96,974	2,234	31,339	
Lettuce	*	*	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	*	*	-	-
Tomatoes	3,891	*	-	-
Green peppers	10,552	*	*	*
Red peppers	78,404	2,104	26,916	12.79
Swiss chard	2,951	*	-	-
Root crops	218,347	7,371	677,412	
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	6,046	*	*	*
Potatoes	104,706	6,604	572,097	86.62
Garlic	169,493	702	96,685	137.70
Taro / 'Godere'	-	-	-	-
Sweet potatoes	-	-	-	-
Fruit crops	*	*	*	
Avocados	-	-	-	-
Bananas	*	*	*	*
Guavas	-	-	-	-
Lemons	*	*	-	-
Mangoes	*	*	-	-
Oranges	*	*	-	-
Papayas	*	*	-	-
Pineapples	-	-	-	-
Chat	5,614	*	-	-
Coffee	10,063	91	63	0.69
Hops	131,782	2,075	5,643	2.72
Sugar cane	*	*	-	-

Table 6.3 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

North Wollo

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	295,898	232,528	2,452,466	
Cereals	291,451	172,747	1,873,623	
Teff	165,561	62,111	573,294	9.23
Barley	187,194	38,424	395,813	10.30
Wheat	132,171	26,138	310,907	11.89
Maize	120,992	5,404	35,963	6.65
Sorghum	103,666	38,475	541,985	14.09
Finger millet	9,343	607	4,070	6.71
Oats / 'Aja'	15,633	1,575	11,592	7.36
Rice	*	*	-	-
Pulses	206,783	52,794	558,731	
Horse beans	122,691	16,585	175,527	10.58
Field peas	87,688	11,208	123,231	10.99
Haricot beans	16,603	*	*	*
Chick-peas	51,397	10,421	123,522	11.85
Lentils	60,387	9,059	75,572	8.34
Vetch	20,682	2,049	35,453	17.30
Soya beans	-	-	-	-
Fenugreek	21,728	618	8,039	13.00
Gibto	-	-	-	-
Oilseeds	72,494	6,988	20,113	
Neug	15,689	*	*	*
Linseed	57,936	4,653	12,383	2.66
Groundnuts	-	-	-	-
Safflower	*	*	*	*
Sesame	*	*	-	-
Rape seed	*	*	*	*
Vegetables	65,702	440	16,398	
Lettuce	*	*	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	30,155	70	6,797	97.80
Tomatoes	*	*	-	-
Green peppers	9,544	51	4,290	84.62
Red peppers	27,224	314	5,311	16.90
Swiss chard	*	*	-	-
Root crops	91,598	1,101	148,271	
Beetroot	1,202	*	-	-
Carrot	*	*	-	-
Onion	12,237	302	40,385	133.55
Potatoes	18,856	*	*	*
Garlic	77,416	618	90,619	146.53
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	16,575	*	*	
Avocados	*	*	-	-
Bananas	4,488	*	*	*
Guavas	4,697	*	-	-
Lemons	*	*	-	-
Mangoes	*	*	-	-
Oranges	8,394	*	*	*
Papayas	*	*	*	*
Pineapples	-	-	-	-
Chat	7,260	16	3	0.17
Coffee	26,658	*	-	-
Hops	63,848	476	3,180	6.68
Sugar cane	2,494	*	*	*

Table 6.4 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

South Wollo

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	477,599	428,473	5,396,082	
Cereals	470,755	301,385	4,169,305	
Teff	290,762	98,552	1,142,063	11.59
Barley	270,766	48,341	741,672	15.34
Wheat	281,738	86,170	1,323,984	15.36
Maize	179,254	8,723	85,386	9.79
Sorghum	148,750	54,720	807,080	14.75
Finger millet	19,335	1,265	9,721	7.69
Oats / 'Aja'	51,567	3,611	59,398	16.45
Rice	*	*	-	-
Pulses	404,368	117,079	1,186,207	
Horse beans	284,140	35,891	484,738	13.51
Field peas	177,140	24,143	146,283	6.06
Haricot beans	83,650	8,639	60,258	6.98
Chick-peas	96,940	15,443	175,235	11.35
Lentils	138,904	21,007	185,059	8.81
Vetch	70,005	8,964	109,771	12.25
Soya beans	*	*	*	*
Fenugreek	58,473	2,978	24,775	8.32
Gibto	-	-	-	-
Oilseeds	149,171	10,009	40,570	
Neug	74,912	5,611	28,158	5.02
Linseed	73,993	3,471	9,019	2.60
Groundnuts	-	-	-	-
Safflower	*	*	-	-
Sesame	*	*	*	*
Rape seed	26,621	279	1,119	4.00
Vegetables	132,573	1,651	40,473	
Lettuce	*	*	-	-
Head cabbage	6,867	*	-	-
Ethiopian cabbage	23,728	58	5,598	95.84
Tomatoes	11,761	*	-	-
Green peppers	31,384	203	20,836	102.55
Red peppers	68,658	1,172	14,039	11.98
Swiss chard	6,805	*	-	-
Root crops	145,659	1,345	173,088	
Beetroot	9,405	*	*	*
Carrot	9,046	*	*	*
Onion	26,379	187	24,677	131.66
Potatoes	26,537	337	33,129	98.28
Garlic	105,770	618	90,200	146.05
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	*	*
Fruit crops	33,416	238	5,047	
Avocados	*	*	-	-
Bananas	4,795	*	*	*
Guavas	7,489	*	*	*
Lemons	*	*	-	-
Mangoes	2,013	*	-	-
Oranges	22,022	156	4,288	27.48
Papayas	*	6	85	13.59
Pineapples	-	-	-	-
Chat	55,226	*	*	*
Coffee	48,702	805	3,263	4.06
Hops	62,755	607	7,600	12.53
Sugar cane	12,686	171	1,091	6.39

Table 6.5 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

North Shewa

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	351,780	390,871	5,018,611	
Cereals	336,698	285,069	3,758,113	
Teff	210,574	91,293	955,269	10.46
Barley	159,449	45,406	576,002	12.69
Wheat	179,300	70,060	1,169,893	16.70
Maize	135,817	5,650	69,464	12.29
Sorghum	149,591	72,532	987,486	13.61
Finger millet	*	*	-	-
Oats / 'Aja'	*	*	-	-
Rice	*	*	-	-
Pulses	271,720	93,327	1,193,684	
Horse beans	197,594	41,361	676,639	16.36
Field peas	107,466	16,561	225,112	13.59
Haricot beans	56,379	4,584	56,344	12.29
Chick-peas	61,431	15,689	137,295	8.75
Lentils	71,163	9,151	54,054	5.91
Vetch	31,454	4,950	40,945	8.27
Soya beans	*	*	-	-
Fenugreek	36,371	945	3,296	3.49
Gibto	*	*	-	-
Oilseeds	113,201	12,475	66,813	
Neug	27,826	1,539	4,731	3.07
Linseed	42,868	5,623	13,316	2.37
Groundnuts	-	-	-	-
Safflower	14,676	830	12,860	15.49
Sesame	41,076	4,224	35,751	8.46
Rape seed	6,620	*	*	*
Vegetables	136,649	1,172	37,974	
Lettuce	2,344	*	-	-
Head cabbage	5,510	*	-	-
Ethiopian cabbage	55,263	117	10,550	89.94
Tomatoes	6,562	14	-	-
Green peppers	41,245	157	15,570	99.23
Red peppers	53,198	780	11,117	14.26
Swiss chard	2,838	*	*	*
Root crops	185,898	3,716	499,459	
Beetroot	4,211	8	1,031	129.31
Carrot	6,777	9	-	-
Onion	101,041	2,700	356,472	132.04
Potatoes	31,876	102	9,954	97.39
Garlic	130,456	885	130,778	147.75
Taro / 'Godere'	-	-	-	-
Sweet potatoes	3,064	*	*	*
Fruit crops	29,313	*	*	
Avocados	*	*	-	-
Bananas	8,947	60	317	5.26
Guavas	*	*	-	-
Lemons	14,393	*	*	*
Mangoes	*	*	-	-
Oranges	10,158	*	*	*
Papayas	3,696	*	*	*
Pineapples	-	-	-	-
Chat	7,816	17	1	0.03
Coffee	43,113	619	898	1.45
Hops	130,455	2,487	21,690	8.72
Sugar cane	15,778	90	451	4.99

Table 6.6 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

East Gojjam

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	379,402	457,515	5,751,625	
Cereals	372,389	343,714	4,607,455	
Teff	262,313	171,547	2,000,876	11.66
Barley	191,760	48,555	572,004	11.78
Wheat	224,970	80,011	1,315,459	16.44
Maize	208,081	27,242	491,767	18.05
Sorghum	47,387	16,056	225,686	14.06
Finger millet	2,514	212	*	*
Oats / 'Aja'	*	*	*	*
Rice	*	*	-	-
Pulses	265,230	83,749	990,125	
Horse beans	215,591	33,542	454,997	13.57
Field peas	96,567	16,147	158,481	9.81
Haricot beans	20,236	*	*	*
Chick-peas	29,385	6,639	56,317	8.48
Lentils	10,309	1,242	3,373	2.72
Vetch	63,641	20,925	285,112	13.63
Soya beans	*	*	-	-
Fenugreek	6,074	320	1,150	3.60
Gibto	4,833	497	-	-
Oilseeds	142,146	30,053	154,045	
Neug	72,586	18,535	87,531	4.72
Linseed	33,731	5,193	26,780	5.16
Groundnuts	-	-	-	-
Safflower	1,395	*	-	-
Sesame	*	*	*	*
Rape seed	79,867	4,315	31,739	7.36
Vegetables	90,660	863	39,237	
Lettuce	*	*	-	-
Head cabbage	5,118	14	1,681	119.84
Ethiopian cabbage	10,334	*	*	*
Tomatoes	2,946	3	-	-
Green peppers	27,768	109	10,232	93.53
Red peppers	50,632	530	7,978	15.05
Swiss chard	*	*	-	-
Root crops	183,407	4,054	442,169	
Beetroot	11,262	20	2,647	129.94
Carrot	*	*	-	-
Onion	28,876	427	54,412	127.32
Potatoes	59,072	2,887	281,902	97.65
Garlic	139,322	714	103,207	144.45
Taro / 'Godere'	-	-	-	-
Sweet potatoes	-	-	-	-
Fruit crops	6,161	20	*	
Avocados	-	-	-	-
Bananas	*	*	*	*
Guavas	-	-	-	-
Lemons	1,815	*	-	-
Mangoes	-	-	-	-
Oranges	3,546	*	-	-
Papayas	-	-	-	-
Pineapples	-	-	-	-
Chat	*	*	-	-
Coffee	3,927	*	*	*
Hops	138,559	1,960	10,406	5.31
Sugar cane	*	*	*	*

Table 6.7 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

West Gojjam

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	376,866	491,842	5,667,375	
Cereals	375,138	356,587	4,772,234	
Teff	238,649	111,823	919,370	8.22
Barley	148,075	39,160	379,871	9.70
Wheat	89,481	30,489	651,952	21.38
Maize	356,994	116,698	2,258,350	19.35
Sorghum	*	*	*	*
Finger millet	142,657	55,393	530,847	9.58
Oats / 'Aja'	*	*	-	-
Rice	*	*	-	-
Pulses	216,454	62,977	433,090	
Horse beans	163,501	26,322	239,401	9.10
Field peas	55,600	9,404	79,883	8.49
Haricot beans	26,010	*	*	*
Chick-peas	24,101	8,360	22,572	2.70
Lentils	6,711	*	*	*
Vetch	34,764	10,637	40,419	3.80
Soya beans	-	-	-	-
Fenugreek	6,750	215	1,569	7.30
Gibto	25,998	3,512	13,406	3.82
Oilseeds	259,631	72,278	462,051	
Neug	123,785	52,205	279,866	5.36
Linseed	42,921	6,532	22,543	3.45
Groundnuts	*	*	-	-
Safflower	*	*	*	*
Sesame	*	*	-	-
Rape seed	207,122	13,154	156,441	11.89
Vegetables	249,372	7,882	89,273	
Lettuce	*	*	-	-
Head cabbage	*	*	*	*
Ethiopian cabbage	*	*	*	*
Tomatoes	6,611	*	*	*
Green peppers	8,796	*	*	*
Red peppers	239,267	7,729	71,106	9.20
Swiss chard	*	*	-	-
Root crops	236,894	3,986	409,186	
Beetroot	5,705	*	-	-
Carrot	*	*	-	-
Onion	29,566	615	63,500	103.31
Potatoes	47,207	1,924	193,420	100.55
Garlic	207,205	1,125	152,265	135.36
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	27,074	*	*	
Avocados	*	*	-	-
Bananas	*	*	*	*
Guavas	*	*	-	-
Lemons	11,549	39	-	-
Mangoes	*	*	-	-
Oranges	*	*	-	-
Papayas	*	*	*	*
Pineapples	-	-	-	-
Chat	14,812	*	-	-
Coffee	29,677	1,133	816	0.72
Hops	165,833	1,964	6,313	3.22
Sugar cane	*	*	-	-

Table 6.8 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Waghamera

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	74,850	95,241	515,650	
Cereals	74,398	71,558	382,993	
Teff	55,728	22,326	84,708	3.79
Barley	51,746	19,598	160,869	8.21
Wheat	34,637	10,246	87,626	8.55
Maize	53,674	2,658	11,533	4.34
Sorghum	33,648	16,592	37,855	2.28
Finger millet	1,556	138	401	2.90
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	56,889	19,195	118,555	
Horse beans	37,895	8,510	74,199	8.72
Field peas	19,263	3,801	21,675	5.70
Haricot beans	13,376	2,233	505	0.23
Chick-peas	5,369	1,051	11,718	11.14
Lentils	20,760	3,516	10,372	2.95
Vetch	*	*	-	-
Soya beans	-	-	-	-
Fenugreek	3,725	48	87	1.80
Gibto	-	-	-	-
Oilseeds	40,981	4,488	14,102	
Neug	8,866	596	688	1.16
Linseed	28,930	2,144	6,996	3.26
Groundnuts	-	-	-	-
Safflower	16,824	1,108	5,398	4.87
Sesame	*	*	*	*
Rape seed	*	*	-	-
Vegetables	3,863	14	-	
Lettuce	*	*	-	-
Head cabbage	1,200	3	-	-
Ethiopian cabbage	*	*	-	-
Tomatoes	1,286	*	-	-
Green peppers	2,404	4	-	-
Red peppers	*	*	-	-
Swiss chard	*	*	-	-
Root crops	9,106	74	7,726	
Beetroot	*	*	-	-
Carrot	*	*	-	-
Onion	1,577	*	-	-
Potatoes	4,941	*	*	*
Garlic	5,260	15	2,243	150.02
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	1,429	8	-	
Avocados	-	-	-	-
Bananas	904	4	-	-
Guavas	*	*	-	-
Lemons	*	*	-	-
Mangoes	*	*	-	-
Oranges	*	*	-	-
Papayas	640	2	-	-
Pineapples	-	-	-	-
Chat	-	-	-	-
Coffee	*	*	-	-
Hops	3,178	*	-	-
Sugar cane	-	-	-	-

Table 6.9 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Awi

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	156,255	195,225	2,060,810	
Cereals	155,557	156,301	1,925,107	
Teff	95,070	54,078	469,660	8.68
Barley	50,675	11,799	124,228	10.53
Wheat	29,161	7,661	70,694	9.23
Maize	143,958	40,035	820,919	20.51
Sorghum	3,941	*	*	*
Finger millet	60,035	41,104	425,220	10.35
Oats / 'Aja'	1,407	*	-	-
Rice	*	*	-	-
Pulses	53,299	10,303	46,107	
Horse beans	20,612	2,978	23,489	7.89
Field peas	10,835	1,412	5,768	4.08
Haricot beans	*	*	-	-
Chick-peas	*	*	-	-
Lentils	-	-	-	-
Vetch	*	*	-	-
Soya beans	*	*	*	*
Fenugreek	14,601	72	67	0.93
Gibto	14,047	3,584	16,360	4.57
Oilseeds	77,996	28,620	89,596	
Neug	46,999	23,710	59,730	2.52
Linseed	5,327	688	1,150	1.67
Groundnuts	*	*	*	*
Safflower	*	*	-	-
Sesame	*	*	*	*
Rape seed	40,216	1,891	13,152	6.95
Vegetables	79,613	2,146	30,719	
Lettuce	*	*	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	14,994	58	5,409	94.03
Tomatoes	*	*	-	-
Green peppers	7,496	23	2,130	90.99
Red peppers	62,186	2,012	23,179	11.52
Swiss chard	*	*	-	-
Root crops	94,570	3,693	350,178	
Beetroot	*	*	-	-
Carrot	*	*	-	-
Onion	9,153	117	-	-
Potatoes	47,940	3,151	308,926	98.05
Garlic	63,874	295	41,237	139.85
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	*	*
Fruit crops	22,427	274	-	
Avocados	*	*	-	-
Bananas	8,898	*	-	-
Guavas	*	*	-	-
Lemons	6,405	17	-	-
Mangoes	*	*	-	-
Oranges	9,162	*	-	-
Papayas	*	*	-	-
Pineapples	-	-	-	-
Chat	*	*	-	-
Coffee	21,565	375	641	1.71
Hops	67,879	363	989	2.73
Sugar cane	10,293	*	-	-

Table 6.10 – Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2004/2005 (1997 E.C)

Oromia Zone

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	70,536	56,525	619,221	
Cereals	70,170	48,935	553,975	
Teff	29,829	9,669	92,892	9.61
Barley	9,231	653	4,652	7.12
Wheat	1,346	*	*	*
Maize	56,670	7,276	84,499	11.61
Sorghum	56,429	31,064	370,963	11.94
Finger millet	2,168	86	708	8.28
Oats / 'Aja'	*	*	-	-
Rice	*	*	-	-
Pulses	36,770	4,056	37,162	
Horse beans	*	*	*	*
Field peas	5,353	*	*	*
Haricot beans	29,636	2,166	17,684	8.16
Chick-peas	4,692	519	6,392	12.31
Lentils	4,394	*	*	*
Vetch	*	27	686	25.30
Soya beans	*	*	-	-
Fenugreek	*	*	-	-
Gibto	*	*	-	-
Oilseeds	35,947	3,533	28,084	
Neug	6,360	250	402	1.61
Linseed	7,537	126	645	5.11
Groundnuts	*	*	-	-
Safflower	8,967	302	2,585	8.57
Sesame	23,714	2,771	23,627	8.53
Rape seed	4,344	74	826	11.14
Vegetables	17,081	419	13,132	
Lettuce	*	*	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	4,212	*	*	*
Tomatoes	1,031	*	-	-
Green peppers	4,404	28	2,750	100.01
Red peppers	9,137	*	*	*
Swiss chard	-	-	-	-
Root crops	6,887	92	-	
Beetroot	*	*	-	-
Carrot	*	*	-	-
Onion	2,561	*	-	-
Potatoes	*	*	-	-
Garlic	4,728	*	-	-
Taro / 'Godere'	-	-	-	-
Sweet potatoes	1,164	*	-	-
Fruit crops	22,090	225	1,182	
Avocados	*	*	-	-
Bananas	4,291	50	357	7.18
Guavas	5,502	34	314	9.35
Lemons	4,884	*	-	-
Mangoes	1,516	9	-	-
Oranges	2,873	16	161	10.29
Papayas	12,901	56	350	6.21
Pineapples	-	-	-	-
Chat	14,997	749	1,116	1.49
Coffee	13,082	423	917	2.17
Hops	*	*	-	-
Sugar cane	1,966	52	-	-

Table 7 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Oromia Region

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	4,331,540	4,574,889	62,321,656	
Cereals	4,254,141	3,649,549	53,974,051	
Teff	1,822,436	918,461	9,450,873	10.29
Barley	1,427,362	532,141	7,473,482	14.04
Wheat	1,722,661	765,528	13,028,288	17.02
Maize	3,089,557	791,686	14,526,478	18.35
Sorghum	1,782,165	522,499	7,948,266	15.21
Finger millet	387,650	84,329	1,093,027	12.96
Oats / 'Aja'	211,044	34,807	453,549	13.03
Rice	2,648	*	*	*
Pulses	2,382,958	495,572	5,333,287	
Horse beans	1,122,767	160,342	1,992,877	12.43
Field peas	451,576	86,828	870,634	10.03
Haricot beans	1,164,403	129,591	1,278,394	9.86
Chick-peas	173,351	49,571	502,586	10.14
Lentils	199,466	17,201	127,644	7.42
Vetch	161,012	42,496	499,865	11.76
Soya beans	15,436	1,520	*	*
Fenugreek	250,053	7,925	58,276	7.35
Gibto	*	*	-	-
Oilseeds	1,402,392	429,768	3,014,317	
Neug	480,457	163,507	990,473	6.06
Linseed	642,358	192,424	1,317,340	6.85
Groundnuts	108,964	17,998	212,776	11.82
Safflower	24,406	1,407	578	0.41
Sesame	165,597	37,882	347,828	9.18
Rape seed	287,847	16,550	145,323	8.78
Vegetables	1,887,121	40,578	1,933,919	
Lettuce	16,042	103	*	*
Head cabbage	143,978	1,468	125,672	85.61
Ethiopian cabbage	1,141,465	10,837	986,291	91.01
Tomatoes	46,800	*	*	*
Green peppers	474,701	2,922	276,813	94.72
Red peppers	515,884	23,338	280,797	12.03
Swiss chard	25,326	47	1,374	29.10
Root crops	1,762,922	62,864	7,023,975	
Beetroot	200,564	1,118	131,392	117.52
Carrot	72,068	*	*	*
Onion	476,563	10,186	1,375,724	135.05
Potatoes	376,230	23,222	2,518,684	108.46
Garlic	721,699	6,020	884,261	146.88
Taro / 'Godere'	252,027	6,355	494,001	77.74
Sweet potatoes	422,201	14,713	1,471,638	100.02
Fruit crops	882,898	16,011	756,677	
Avocados	71,972	640	13,700	21.39
Bananas	588,613	8,790	460,717	52.42
Guavas	92,189	727	8,924	12.27
Lemons	34,864	156	2,370	15.21
Mangoes	233,777	2,885	105,161	36.45
Oranges	158,316	1,418	96,916	68.35
Papayas	164,077	1,381	68,809	49.82
Pineapples	5,449	13	80	6.05
Chat	1,097,809	83,463	580,212	6.95
Coffee	1,085,675	175,829	1,068,976	6.08
Hops	459,807	4,239	103,953	24.52
Sugar cane	234,058	6,643	495,340	74.57

Table 7.1 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

West Welega

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	337,346	334,978	5,446,751	
Cereals	335,232	271,031	4,903,349	
Teff	92,197	25,425	211,230	8.31
Barley	75,978	4,660	50,613	10.86
Wheat	91,338	12,634	174,095	13.78
Maize	324,828	105,698	2,231,474	21.11
Sorghum	270,329	78,104	1,545,046	19.78
Finger millet	176,737	44,361	690,890	15.57
Oats / 'Aja'	2,574	148	-	-
Rice	-	-	-	-
Pulses	219,124	25,675	216,417	
Horse beans	99,777	9,525	92,099	9.67
Field peas	32,803	2,113	12,426	5.88
Haricot beans	171,727	12,402	102,295	8.25
Chick-peas	7,976	*	*	*
Lentils	-	-	-	-
Vetch	3,248	48	*	*
Soya beans	*	*	*	*
Fenugreek	16,637	237	1,035	4.36
Gibto	-	-	-	-
Oilseeds	169,220	38,273	326,984	
Neug	114,159	28,761	241,774	8.41
Linseed	18,314	447	2,866	6.41
Groundnuts	8,871	*	*	*
Safflower	*	*	-	-
Sesame	36,396	6,781	56,283	8.30
Rape seed	52,898	1,986	24,080	12.13
Vegetables	175,408	4,313	154,827	
Lettuce	-	-	-	-
Head cabbage	5,588	*	*	*
Ethiopian cabbage	45,791	909	89,811	98.84
Tomatoes	*	*	-	-
Green peppers	11,165	*	*	*
Red peppers	143,231	3,274	52,933	16.17
Swiss chard	-	-	-	-
Root crops	161,343	3,464	348,305	
Beetroot	9,051	24	3,008	126.76
Carrot	5,785	*	*	*
Onion	13,211	70	8,414	119.91
Potatoes	17,434	197	19,834	100.79
Garlic	47,072	169	23,034	136.60
Taro / 'Godere'	28,508	169	13,451	79.56
Sweet potatoes	110,041	2,820	278,757	98.84
Fruit crops	196,020	4,038	224,506	
Avocados	*	*	*	*
Bananas	167,203	2,691	151,450	56.27
Guavas	*	*	*	*
Lemons	4,304	29	509	17.50
Mangoes	65,543	817	47,150	57.73
Oranges	34,603	354	16,759	47.35
Papayas	12,135	44	4,734	108.00
Pineapples	*	*	-	-
Chat	70,294	2,258	22,036	9.76
Coffee	259,037	64,377	325,103	5.05
Hops	53,703	357	3,592	10.05
Sugar cane	8,780	261	18,927	72.44

Table 7.2 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

East Welega

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	274,177	398,068	4,955,631	
Cereals	268,830	274,583	4,006,932	
Teff	145,050	86,586	919,642	10.62
Barley	69,020	20,007	171,421	8.57
Wheat	98,141	31,407	340,977	10.86
Maize	234,525	79,683	1,832,846	23.00
Sorghum	111,760	36,117	529,156	14.65
Finger millet	72,423	20,420	210,564	10.31
Oats / 'Aja'	5,769	347	2,239	6.46
Rice	*	*	*	*
Pulses	133,191	21,419	195,324	
Horse beans	94,571	11,718	100,094	8.54
Field peas	37,904	7,573	63,320	8.36
Haricot beans	29,173	1,577	30,619	19.42
Chick-peas	2,129	*	*	*
Lentils	*	*	*	*
Vetch	-	-	-	-
Soya beans	*	*	-	-
Fenugreek	27,614	194	558	2.88
Gibto	-	-	-	-
Oilseeds	204,720	102,066	753,374	
Neug	145,017	74,576	419,388	5.62
Linseed	10,241	*	8,362	*
Groundnuts	*	*	*	*
Safflower	*	*	-	-
Sesame	59,244	21,018	251,642	11.97
Rape seed	58,824	2,872	42,092	14.65
Vegetables	121,954	2,174	53,769	
Lettuce	-	-	-	-
Head cabbage	8,644	19	-	-
Ethiopian cabbage	18,084	164	13,450	82.23
Tomatoes	*	*	-	-
Green peppers	45,054	230	20,486	89.05
Red peppers	65,040	1,757	19,833	11.29
Swiss chard	*	*	-	-
Root crops	128,569	1,453	169,933	
Beetroot	26,685	73	8,785	120.74
Carrot	6,870	8	946	113.04
Onion	28,791	150	20,065	133.56
Potatoes	30,445	553	54,272	98.20
Garlic	98,524	525	72,779	138.58
Taro / 'Godere'	*	*	*	*
Sweet potatoes	9,483	143	13,051	91.00
Fruit crops	49,266	755	33,983	
Avocados	*	*	-	-
Bananas	32,384	383	10,777	28.16
Guavas	-	-	-	-
Lemons	2,490	12	295	24.03
Mangoes	18,702	204	13,171	64.54
Oranges	3,790	*	*	*
Papayas	6,321	37	5,070	135.77
Pineapples	-	-	-	-
Chat	25,683	*	*	*
Coffee	37,912	3,067	22,791	7.43
Hops	69,089	673	12,894	19.15
Sugar cane	3,961	210	10,178	48.50

Table 7.3 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Illubabor

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	199,389	199,364	2,512,583	
Cereals	198,238	170,472	2,329,014	
Teff	109,319	50,332	562,476	11.18
Barley	32,305	3,197	22,621	7.07
Wheat	42,431	4,507	46,946	10.42
Maize	189,467	72,572	1,143,473	15.76
Sorghum	123,855	31,809	468,057	14.71
Finger millet	45,181	7,790	83,265	10.69
Oats / 'Aja'	*	*	*	*
Rice	-	-	-	-
Pulses	130,069	18,788	131,622	
Horse beans	58,229	6,782	50,630	7.46
Field peas	30,306	5,769	34,186	5.93
Haricot beans	90,020	5,133	44,143	8.60
Chick-peas	4,080	697	2,578	3.70
Lentils	-	-	-	-
Vetch	-	-	-	-
Soya beans	3,691	*	-	-
Fenugreek	12,557	213	85	0.40
Gibto	-	-	-	-
Oilseeds	58,527	10,104	51,947	
Neug	36,848	6,733	34,079	5.06
Linseed	14,928	800	2,116	2.65
Groundnuts	*	*	-	-
Safflower	*	*	-	-
Sesame	10,953	*	*	*
Rape seed	9,076	178	335	1.88
Vegetables	126,881	2,180	74,383	
Lettuce	*	*	-	-
Head cabbage	19,640	55	6,158	112.19
Ethiopian cabbage	45,414	187	18,834	100.66
Tomatoes	*	*	-	-
Green peppers	54,777	270	24,770	91.77
Red peppers	55,294	1,638	24,426	14.91
Swiss chard	*	*	*	*
Root crops	98,177	1,016	104,850	
Beetroot	29,820	55	6,745	121.58
Carrot	3,829	*	*	*
Onion	27,096	131	16,008	122.18
Potatoes	2,568	*	*	*
Garlic	45,919	108	14,783	136.45
Taro / 'Godere'	31,594	335	27,292	81.54
Sweet potatoes	20,498	331	34,064	102.95
Fruit crops	78,593	949	35,399	
Avocados	4,216	*	*	*
Bananas	53,848	648	24,592	37.94
Guavas	2,795	10	115	11.91
Lemons	4,181	*	*	*
Mangoes	23,765	131	4,548	34.82
Oranges	14,766	68	2,309	34.03
Papayas	16,640	47	3,548	76.10
Pineapples	1,387	*	-	-
Chat	60,971	1,447	14,379	9.94
Coffee	96,260	19,364	106,694	5.51
Hops	20,108	110	1,458	13.29
Sugar cane	19,885	260	17,815	68.63

Table 7.4 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Jimma

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	464,965	415,270	5,905,431	
Cereals	456,857	358,014	5,499,254	
Teff	349,788	129,217	1,223,452	9.47
Barley	119,849	15,810	141,336	8.94
Wheat	156,042	37,633	568,822	15.12
Maize	343,392	101,712	2,325,368	22.86
Sorghum	269,789	65,855	1,151,297	17.48
Finger millet	37,578	6,261	69,485	11.10
Oats / 'Aja'	18,622	1,467	*	*
Rice	*	*	-	-
Pulses	249,433	35,945	304,382	
Horse beans	158,963	21,348	199,937	9.37
Field peas	63,621	12,154	94,516	7.78
Haricot beans	83,898	1,431	6,752	4.72
Chick-peas	*	*	1,055	*
Lentils	18,938	561	2,121	3.78
Vetch	-	-	-	-
Soya beans	1,527	*	-	-
Fenugreek	6,161	*	-	-
Gibto	-	-	-	-
Oilseeds	137,738	21,310	101,795	
Neug	46,550	15,098	77,428	5.13
Linseed	88,513	5,300	23,077	4.35
Groundnuts	4,342	*	-	-
Safflower	*	*	-	-
Sesame	*	*	-	-
Rape seed	16,447	460	1,290	2.81
Vegetables	383,223	4,641	317,567	
Lettuce	*	*	-	-
Head cabbage	41,775	103	-	-
Ethiopian cabbage	329,890	2,539	257,707	101.50
Tomatoes	3,466	11	-	-
Green peppers	113,688	412	39,940	96.96
Red peppers	50,914	*	*	*
Swiss chard	*	*	-	-
Root crops	269,299	7,090	559,923	
Beetroot	28,371	37	4,621	124.15
Carrot	3,763	*	*	*
Onion	35,384	112	14,228	126.90
Potatoes	32,674	536	54,596	101.85
Garlic	77,018	240	35,557	148.42
Taro / 'Godere'	175,786	5,786	448,959	77.60
Sweet potatoes	23,500	*	-	-
Fruit crops	225,477	2,828	215,346	
Avocados	21,721	87	5,358	61.75
Bananas	163,482	1,610	122,161	75.90
Guavas	28,188	*	*	*
Lemons	5,394	*	*	*
Mangoes	63,897	283	20,516	72.54
Oranges	62,217	502	52,905	105.34
Papayas	48,986	121	11,176	92.60
Pineapples	3,299	5	80	15.98
Chat	265,280	7,354	55,376	7.53
Coffee	264,819	38,808	293,002	7.55
Hops	17,925	89	1,902	21.38
Sugar cane	92,465	743	49,618	66.76

Table 7.5 – Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2004/2005 (1997 E.C)

West Shewa

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	345,976	458,258	6,698,204	
Cereals	342,202	371,064	5,741,086	
Teff	191,877	112,242	1,386,126	12.35
Barley	163,233	64,654	773,602	11.97
Wheat	190,668	87,694	1,652,522	18.84
Maize	210,601	51,878	1,007,313	19.42
Sorghum	126,864	52,949	899,495	16.99
Finger millet	*	*	-	-
Oats / 'Aja'	21,345	1,539	22,028	14.31
Rice	-	-	-	-
Pulses	177,503	40,464	644,349	
Horse beans	139,532	25,189	397,428	15.78
Field peas	37,691	7,340	109,281	14.89
Haricot beans	20,992	*	*	*
Chick-peas	*	*	*	*
Lentils	13,155	*	9,876	*
Vetch	*	*	*	*
Soya beans	*	*	-	-
Fenugreek	17,307	*	*	*
Gibto	-	-	-	-
Oilseeds	139,966	46,730	312,770	
Neug	51,092	19,474	122,395	6.29
Linseed	75,064	22,343	167,025	7.48
Groundnuts	*	*	-	-
Safflower	4,237	*	-	-
Sesame	*	*	-	-
Rape seed	46,344	2,939	23,350	7.94
Vegetables	172,275	3,220	154,223	
Lettuce	*	*	-	-
Head cabbage	9,348	*	*	*
Ethiopian cabbage	84,233	566	55,373	97.80
Tomatoes	*	*	*	*
Green peppers	66,492	484	47,514	98.27
Red peppers	52,560	*	*	*
Swiss chard	*	*	*	*
Root crops	179,810	2,292	293,531	
Beetroot	26,656	35	4,583	131.80
Carrot	6,100	6	799	124.97
Onion	82,437	374	49,922	133.45
Potatoes	35,968	805	81,659	101.43
Garlic	137,724	939	143,245	152.63
Taro / 'Godere'	*	*	*	*
Sweet potatoes	*	*	*	*
Fruit crops	30,849	288	17,381	
Avocados	*	*	-	-
Bananas	15,088	110	6,070	54.94
Guavas	*	*	-	-
Lemons	3,932	*	*	*
Mangoes	*	*	*	*
Oranges	3,375	*	*	*
Papayas	*	*	*	*
Pineapples	-	-	-	-
Chat	23,209	527	4,323	8.21
Coffee	15,191	*	*	*
Hops	113,989	936	30,665	32.75
Sugar cane	10,889	319	27,539	86.46

Table 7.6 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

South West Shewa

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	178,911	251,614	3,059,794	
Cereals	176,264	190,825	2,457,827	
Teff	135,097	117,282	1,373,809	11.71
Barley	50,460	13,497	110,582	8.19
Wheat	115,083	39,656	676,861	17.07
Maize	115,312	14,741	219,140	14.87
Sorghum	34,721	5,464	75,933	13.90
Finger millet	736	*	-	-
Oats / 'Aja'	2,249	140	1,502	10.73
Rice	-	-	-	-
Pulses	121,634	48,447	541,898	
Horse beans	73,510	7,463	93,066	12.47
Field peas	21,370	4,325	41,729	9.65
Haricot beans	17,001	*	*	*
Chick-peas	56,247	21,598	237,549	11.00
Lentils	16,390	1,446	9,270	6.41
Vetch	48,321	10,925	145,652	13.33
Soya beans	*	*	-	-
Fenugreek	9,650	549	3,314	6.03
Gibto	-	-	-	-
Oilseeds	57,357	12,342	60,068	
Neug	26,314	8,290	37,263	4.49
Linseed	17,438	3,682	21,510	5.84
Groundnuts	-	-	-	-
Safflower	*	*	-	-
Sesame	*	*	-	-
Rape seed	19,636	281	1,296	4.62
Vegetables	109,487	*	60,733	
Lettuce	1,340	*	-	-
Head cabbage	12,930	24	2,677	109.68
Ethiopian cabbage	88,387	462	46,062	99.76
Tomatoes	1,882	*	-	-
Green peppers	46,539	132	11,421	86.47
Red peppers	*	*	-	-
Swiss chard	4,628	4	572	152.61
Root crops	68,491	670	72,243	
Beetroot	12,944	25	3,224	128.51
Carrot	7,552	6	-	-
Onion	17,085	*	*	*
Potatoes	12,802	158	16,344	103.52
Garlic	44,387	176	25,790	146.77
Taro / 'Godere'	*	*	-	-
Sweet potatoes	*	*	-	-
Fruit crops	16,960	93	*	
Avocados	*	*	-	-
Bananas	10,743	*	*	*
Guavas	*	*	-	-
Lemons	*	*	-	-
Mangoes	2,130	*	-	-
Oranges	*	*	-	-
Papayas	*	*	-	-
Pineapples	-	-	-	-
Chat	31,741	1,858	15,107	8.13
Coffee	16,921	154	809	5.26
Hops	47,840	263	8,295	31.59
Sugar cane	11,849	59	5,320	89.92

Table 7.7 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

North Shewa

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	229,535	355,407	3,685,287	
Cereals	227,343	280,604	2,995,660	
Teff	153,477	101,852	1,030,186	10.11
Barley	105,885	72,540	595,666	8.21
Wheat	124,881	51,969	603,053	11.60
Maize	86,530	5,638	66,846	11.86
Sorghum	76,996	46,919	688,209	14.67
Finger millet	*	*	-	-
Oats / 'Aja'	11,505	1,505	11,700	7.77
Rice	-	-	-	-
Pulses	144,468	60,056	630,543	
Horse beans	112,286	28,944	296,582	10.25
Field peas	51,310	8,923	90,284	10.12
Haricot beans	4,870	196	838	4.27
Chick-peas	15,303	5,087	49,883	9.81
Lentils	27,416	5,909	49,093	8.31
Vetch	39,984	10,696	142,398	13.31
Soya beans	-	-	-	-
Fenugreek	4,839	*	*	*
Gibto	-	-	-	-
Oilseeds	69,054	14,747	59,084	
Neug	29,505	6,665	35,972	5.40
Linseed	32,522	7,757	20,947	2.70
Groundnuts	-	-	-	-
Safflower	*	*	-	-
Sesame	*	*	-	-
Rape seed	11,903	214	2,165	10.10
Vegetables	76,270	387	25,751	
Lettuce	*	*	-	-
Head cabbage	2,153	*	-	-
Ethiopian cabbage	51,172	128	12,709	98.94
Tomatoes	*	*	-	-
Green peppers	12,193	*	*	*
Red peppers	12,292	128	1,751	13.71
Swiss chard	*	*	-	-
Root crops	81,062	500	71,769	
Beetroot	5,779	6	591	101.78
Carrot	5,391	12	-	-
Onion	12,162	50	6,407	128.68
Potatoes	7,022	25	2,724	108.70
Garlic	73,528	407	62,047	152.38
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	*	*	*	
Avocados	*	*	-	-
Bananas	*	*	*	*
Guavas	*	*	-	-
Lemons	*	*	*	*
Mangoes	*	*	-	-
Oranges	*	*	*	*
Papayas	*	*	-	-
Pineapples	-	-	-	-
Chat	1,059	*	-	-
Coffee	*	*	*	*
Hops	33,902	206	4,517	21.98
Sugar cane	*	*	*	*

Table 7.8 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

East Shewa

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	337,993	442,900	5,776,625	
Cereals	334,346	355,815	4,832,714	
Teff	190,422	135,791	1,478,455	10.89
Barley	75,377	18,129	230,022	12.69
Wheat	138,528	74,078	1,173,242	15.84
Maize	258,335	112,014	1,786,387	15.95
Sorghum	82,064	12,601	136,903	10.86
Finger millet	25,957	2,976	24,572	8.26
Oats / 'Aja'	*	*	*	*
Rice	-	-	-	-
Pulses	218,026	83,827	928,580	
Horse beans	61,899	7,195	118,919	16.53
Field peas	27,299	8,178	109,945	13.44
Haricot beans	170,127	44,327	463,307	10.45
Chick-peas	34,766	15,186	153,482	10.11
Lentils	19,469	2,259	18,779	8.31
Vetch	25,673	5,742	55,660	9.69
Soya beans	*	*	-	-
Fenugreek	10,439	869	*	*
Gibto	-	-	-	-
Oilseeds	48,983	3,258	15,331	
Neug	*	*	-	-
Linseed	10,997	709	2,124	2.99
Groundnuts	*	*	-	-
Safflower	*	*	-	-
Sesame	14,377	1,479	11,683	7.90
Rape seed	21,732	341	1,524	4.47
Vegetables	105,756	2,358	217,232	
Lettuce	2,695	4	-	-
Head cabbage	5,796	*	*	*
Ethiopian cabbage	77,009	966	101,226	104.84
Tomatoes	*	*	*	*
Green peppers	35,226	370	39,137	105.86
Red peppers	8,287	*	*	*
Swiss chard	*	*	*	*
Root crops	67,066	6,944	829,839	
Beetroot	9,365	*	*	*
Carrot	*	*	*	*
Onion	20,122	*	*	*
Potatoes	30,573	5,440	642,652	118.13
Garlic	23,265	116	14,363	123.63
Taro / 'Godere'	-	-	-	-
Sweet potatoes	1,396	12	1,210	100.01
Fruit crops	9,068	*	*	
Avocados	2,686	4	23	6.16
Bananas	*	*	*	*
Guavas	*	*	-	-
Lemons	*	*	-	-
Mangoes	*	*	-	-
Oranges	*	*	-	-
Papayas	6,037	*	-	-
Pineapples	-	-	-	-
Chat	*	*	-	-
Coffee	2,840	*	*	*
Hops	28,520	623	22,150	35.55
Sugar cane	*	*	-	-

Table 7.9 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Arsi

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	515,410	604,719	9,820,541	
Cereals	500,216	472,533	8,518,016	
Teff	179,814	73,574	659,018	8.96
Barley	263,463	115,810	2,178,664	18.81
Wheat	303,565	184,477	3,805,387	20.63
Maize	326,294	75,160	1,505,615	20.03
Sorghum	89,544	20,705	329,975	15.94
Finger millet	*	*	-	-
Oats / 'Aja'	30,199	2,521	39,357	15.61
Rice	-	-	-	-
Pulses	252,976	48,254	674,639	
Horse beans	143,348	21,709	384,604	17.72
Field peas	46,476	8,967	125,194	13.96
Haricot beans	98,565	12,409	117,651	9.48
Chick-peas	*	*	*	*
Lentils	31,442	1,595	13,491	8.46
Vetch	11,625	*	*	*
Soya beans	-	-	-	-
Fenugreek	19,541	1,025	*	*
Gibto	-	-	-	-
Oilseeds	200,589	83,932	627,886	
Neug	19,786	*	*	*
Linseed	170,475	73,786	562,782	7.63
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	*	*	-	-
Rape seed	28,372	*	*	*
Vegetables	176,976	6,790	*	
Lettuce	*	*	-	-
Head cabbage	15,358	206	-	-
Ethiopian cabbage	89,836	1,011	-	-
Tomatoes	*	*	*	*
Green peppers	30,409	232	20,807	89.84
Red peppers	46,208	*	*	*
Swiss chard	6,032	21	-	-
Root crops	206,911	12,641	1,528,743	
Beetroot	30,904	349	42,777	122.59
Carrot	9,086	*	*	*
Onion	87,779	*	*	*
Potatoes	65,854	5,295	547,599	103.42
Garlic	87,505	1,282	184,265	143.75
Taro / 'Godere'	*	*	-	-
Sweet potatoes	*	*	*	*
Fruit crops	25,718	*	*	
Avocados	*	*	-	-
Bananas	*	*	*	*
Guavas	*	*	*	*
Lemons	*	*	-	-
Mangoes	*	*	-	-
Oranges	*	*	*	*
Papayas	10,225	*	*	*
Pineapples	-	-	-	-
Chat	37,350	2,177	4,702	2.16
Coffee	31,369	*	*	*
Hops	40,389	451	12,721	28.19
Sugar cane	15,682	*	*	*

Table 7.10 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

West Harerge

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	301,287	199,102	2,419,505	
Cereals	298,539	165,863	2,048,427	
Teff	60,890	12,144	109,795	9.04
Barley	67,209	5,050	53,610	10.62
Wheat	52,013	6,601	73,044	11.07
Maize	246,017	47,415	579,500	12.22
Sorghum	251,019	92,534	1,214,661	13.13
Finger millet	24,066	1,768	14,252	8.06
Oats / 'Aja'	7,439	350	3,564	10.17
Rice	*	*	-	-
Pulses	188,906	24,129	308,884	
Horse beans	16,888	*	*	*
Field peas	*	*	*	*
Haricot beans	162,834	17,149	223,972	13.06
Chick-peas	10,900	*	16,103	*
Lentils	14,340	733	4,905	6.69
Vetch	*	*	-	-
Soya beans	*	*	-	-
Fenugreek	39,822	1,465	6,493	4.43
Gibto	*	*	-	-
Oilseeds	82,635	9,110	62,194	
Neug	*	*	*	*
Linseed	34,318	1,354	4,581	3.38
Groundnuts	35,737	*	*	*
Safflower	4,140	100	578	5.80
Sesame	22,016	2,194	12,802	5.84
Rape seed	6,929	231	218	0.94
Vegetables	67,167	*	*	
Lettuce	-	-	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	*	*	*	*
Tomatoes	6,940	*	-	-
Green peppers	14,622	108	10,259	95.12
Red peppers	48,575	*	*	*
Swiss chard	-	-	-	-
Root crops	72,579	3,079	343,894	
Beetroot	2,664	*	-	-
Carrot	*	*	-	-
Onion	16,241	327	42,545	130.28
Potatoes	*	*	*	*
Garlic	3,509	34	4,823	143.27
Taro / 'Godere'	-	-	-	-
Sweet potatoes	54,895	2,501	278,847	111.50
Fruit crops	61,313	944	21,548	
Avocados	*	*	-	-
Bananas	27,619	418	17,368	41.56
Guavas	20,773	166	1,703	10.24
Lemons	3,788	30	86	2.90
Mangoes	4,065	*	*	*
Oranges	8,337	69	328	4.78
Papayas	19,092	168	1,683	9.99
Pineapples	-	-	-	-
Chat	198,630	22,627	93,903	4.15
Coffee	114,902	12,209	24,662	2.02
Hops	3,499	38	429	11.20
Sugar cane	10,286	231	11,668	50.51

Table 7.11 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

East Harerge

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	407,674	165,461	2,050,354	
Cereals	406,117	132,171	1,635,006	
Teff	35,154	2,828	25,739	9.10
Barley	55,396	2,736	39,830	14.56
Wheat	116,732	10,932	143,873	13.16
Maize	337,428	44,758	593,745	13.27
Sorghum	308,212	70,422	826,441	11.74
Finger millet	*	*	-	-
Oats / 'Aja'	12,498	406	5,377	13.25
Rice	*	*	-	-
Pulses	236,236	21,766	272,360	
Horse beans	32,506	2,451	31,095	12.69
Field peas	12,545	*	*	*
Haricot beans	193,877	16,201	214,955	13.27
Chick-peas	8,470	173	916	5.30
Lentils	23,966	909	7,739	8.51
Vetch	-	-	-	-
Soya beans	*	-	-	-
Fenugreek	69,460	1,191	12,007	10.08
Gibto	-	-	-	-
Oilseeds	85,735	11,524	142,989	
Neug	*	*	-	-
Linseed	35,830	988	7,913	8.01
Groundnuts	46,828	10,261	135,076	13.16
Safflower	*	*	-	-
Sesame	*	*	-	-
Rape seed	3,893	24	-	-
Vegetables	35,247	737	69,865	
Lettuce	*	*	*	*
Head cabbage	7,377	*	*	*
Ethiopian cabbage	3,227	*	-	-
Tomatoes	7,402	*	*	*
Green peppers	9,741	*	*	*
Red peppers	8,694	71	498	6.97
Swiss chard	*	*	-	-
Root crops	213,200	14,147	1,638,417	
Beetroot	*	*	*	*
Carrot	*	*	*	*
Onion	40,320	1,543	220,821	143.10
Potatoes	66,486	5,134	595,642	116.03
Garlic	25,273	525	84,884	161.60
Taro / 'Godere'	-	-	-	-
Sweet potatoes	149,118	6,361	663,386	104.29
Fruit crops	73,910	821	16,108	
Avocados	*	*	-	-
Bananas	30,148	159	8,243	51.72
Guavas	17,278	140	1,874	13.34
Lemons	4,233	19	414	22.07
Mangoes	26,298	429	3,611	8.42
Oranges	*	*	-	-
Papayas	14,645	70	1,966	27.97
Pineapples	-	-	-	-
Chat	331,546	37,739	338,138	8.96
Coffee	93,699	3,014	21,670	7.19
Hops	*	*	*	*
Sugar cane	9,951	142	13,576	95.91

Table 7.12 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Bale

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	483,677	626,979	8,647,178	
Cereals	476,099	506,052	7,784,588	
Teff	126,971	54,396	344,246	6.33
Barley	264,893	168,911	2,777,111	16.44
Wheat	244,020	210,336	3,629,672	17.26
Maize	224,766	39,037	610,909	15.65
Sorghum	28,865	*	*	*
Finger millet	*	*	-	-
Oats / 'Aja'	92,181	25,892	342,979	13.25
Rice	-	-	-	-
Pulses	168,180	44,752	362,809	
Horse beans	88,210	12,793	149,890	11.72
Field peas	58,035	15,270	140,203	9.18
Haricot beans	28,154	*	*	*
Chick-peas	*	*	*	*
Lentils	32,906	2,625	12,138	4.62
Vetch	*	*	*	*
Soya beans	-	-	-	-
Fenugreek	15,579	1,426	*	*
Gibto	-	-	-	-
Oilseeds	140,968	76,176	499,780	
Neug	8,141	580	1,770	3.05
Linseed	131,191	73,658	493,920	6.71
Groundnuts	-	-	-	-
Safflower	-	-	-	-
Sesame	*	*	-	-
Rape seed	*	*	*	*
Vegetables	204,798	3,644	244,451	
Lettuce	-	-	-	-
Head cabbage	*	*	*	*
Ethiopian cabbage	182,674	1,801	192,673	107.00
Tomatoes	*	*	*	*
Green peppers	16,545	*	*	*
Red peppers	*	*	*	*
Swiss chard	*	*	-	-
Root crops	161,730	*	*	
Beetroot	10,361	30	-	-
Carrot	*	*	*	*
Onion	85,639	1,318	177,951	135.00
Potatoes	60,966	*	*	*
Garlic	55,303	*	*	*
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	*	*
Fruit crops	45,986	*	101,674	
Avocados	*	*	-	-
Bananas	25,646	1,134	63,281	55.78
Guavas	*	*	*	*
Lemons	*	*	*	*
Mangoes	*	*	*	*
Oranges	*	*	*	*
Papayas	21,950	*	*	*
Pineapples	-	-	-	-
Chat	34,524	*	*	*
Coffee	41,817	*	*	*
Hops	20,898	120	3,837	32.06
Sugar cane	*	*	*	*

Table 7.13 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Borena

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	89,185	29,010	209,896	
Cereals	73,758	17,586	170,034	
Teff	14,981	3,560	17,536	4.93
Barley	9,068	908	4,986	5.49
Wheat	8,439	1,228	7,776	6.33
Maize	62,217	10,401	136,314	13.11
Sorghum	7,686	*	*	*
Finger millet	*	*	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	62,311	11,325	39,863	
Horse beans	5,487	*	*	*
Field peas	1,063	*	-	-
Haricot beans	59,248	10,269	37,248	3.63
Chick-peas	3,196	389	694	1.78
Lentils	*	*	*	*
Vetch	*	*	-	-
Soya beans	*	*	-	-
Fenugreek	*	*	-	-
Gibto	-	-	-	-
Oilseeds	2,393	*	-	
Neug	-	-	-	-
Linseed	*	*	-	-
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	-	-	-	-
Rape seed	*	*	-	-
Vegetables	36,821	666	67,256	
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	33,521	594	60,543	102.00
Tomatoes	*	*	-	-
Green peppers	7,074	70	6,710	96.16
Red peppers	*	*	*	*
Swiss chard	*	*	-	-
Root crops	22,167	*	*	
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	*	*	*	*
Potatoes	*	*	*	*
Garlic	-	-	-	-
Taro / 'Godere'	*	*	*	*
Sweet potatoes	15,423	*	*	*
Fruit crops	28,673	800	28,251	
Avocados	11,293	*	*	*
Bananas	19,794	634	21,860	34.49
Guavas	*	*	*	*
Lemons	*	*	-	-
Mangoes	*	*	-	-
Oranges	*	*	*	*
Papayas	3,905	*	*	*
Pineapples	*	-	-	-
Chat	8,029	*	*	*
Coffee	48,167	7,413	72,352	9.76
Hops	2,423	*	*	*
Sugar cane	12,958	808	58,951	72.95

Table 7.14 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Guji

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	166,015	93,758	1,133,877	
Cereals	160,098	82,937	1,052,145	
Teff	37,400	13,233	109,163	8.25
Barley	75,226	26,233	323,416	12.33
Wheat	40,780	12,377	132,018	10.67
Maize	129,844	30,979	487,548	15.74
Sorghum	*	*	-	-
Finger millet	*	*	-	-
Oats / 'Aja'	-	-	-	-
Rice	*	*	-	-
Pulses	80,900	10,725	81,617	
Horse beans	37,561	2,783	25,226	9.06
Field peas	25,574	4,865	37,941	7.80
Haricot beans	33,917	3,015	18,348	6.09
Chick-peas	1,439	*	*	*
Lentils	*	*	-	-
Vetch	*	*	-	-
Soya beans	*	*	-	-
Fenugreek	-	-	-	-
Gibto	-	-	-	-
Oilseeds	4,506	96	*	
Neug	-	-	-	-
Linseed	1,935	*	*	*
Groundnuts	*	*	-	-
Safflower	*	*	-	-
Sesame	-	-	-	-
Rape seed	*	*	-	-
Vegetables	94,858	1,617	142,912	
Lettuce	-	-	-	-
Head cabbage	2,020	*	-	-
Ethiopian cabbage	91,280	1,438	136,641	95.00
Tomatoes	*	*	-	-
Green peppers	11,175	75	6,271	84.07
Red peppers	3,400	64	-	-
Swiss chard	-	-	-	-
Root crops	32,518	708	45,109	
Beetroot	1,025	*	-	-
Carrot	*	*	-	-
Onion	9,969	99	13,596	137.70
Potatoes	8,221	248	-	-
Garlic	2,673	16	-	-
Taro / 'Godere'	*	*	*	*
Sweet potatoes	13,983	333	31,357	94.03
Fruit crops	36,624	1,137	25,881	
Avocados	8,156	*	-	-
Bananas	29,296	847	25,881	30.54
Guavas	*	*	-	-
Lemons	*	*	-	-
Mangoes	-	-	-	-
Oranges	*	*	-	-
Papayas	1,338	*	-	-
Pineapples	-	-	-	-
Chat	8,918	321	747	2.33
Coffee	58,992	11,310	85,844	7.59
Hops	6,700	*	-	-
Sugar cane	25,060	1,360	97,769	71.87

Table 8 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Somali Region

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	84,777	72,130	446,486	
Cereals	84,490	69,900	437,931	
Teff	*	*	-	-
Barley	23,602	5,706	38,992	6.83
Wheat	40,498	16,030	153,023	9.55
Maize	70,854	25,660	103,611	4.04
Sorghum	51,993	21,994	138,389	6.29
Finger millet	-	-	-	-
Oats / 'Aja'	5,548	490	3,916	7.99
Rice	-	-	-	-
Pulses	21,930	1,926	8,163	
Horse beans	*	*	-	-
Field peas	1,879	100	1,012	10.16
Haricot beans	16,292	1,154	6,058	5.25
Chick-peas	2,554	*	*	*
Lentils	2,669	170	538	3.16
Vetch	-	-	-	-
Soya beans	*	*	-	-
Fenugreek	2,323	130	226	1.74
Gibto	*	*	-	-
Oilseeds	4,926	304	392	
Neug	-	-	-	-
Linseed	4,386	265	392	1.48
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	236	*	1	*
Rape seed	*	*	-	-
Vegetables	2,591	54	1,118	
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	*	*	-	-
Tomatoes	2,160	45	1,118	24.72
Green peppers	349	6	-	-
Red peppers	27	0	-	-
Swiss chard	-	-	-	-
Root crops	13,850	1,156	83,923	
Beetroot	*	0	-	-
Carrot	-	-	-	-
Onion	4,092	*	*	*
Potatoes	921	30	3,195	105.00
Garlic	6,623	357	59,230	165.75
Taro / 'Godere'	-	-	-	-
Sweet potatoes	6,722	608	896	1.47
Fruit crops	5,297	331	25,573	
Avocados	9	0	-	-
Bananas	1,100	85	5,909	69.80
Guavas	1,199	9	*	*
Lemons	1,888	78	3,004	38.69
Mangoes	2,072	57	-	-
Oranges	1,173	88	16,533	187.83
Papayas	1,534	14	109	7.70
Pineapples	-	-	-	-
Chat	34,763	7,208	92,733	12.87
Coffee	551	*	64	*
Hops	-	-	-	-
Sugar cane	*	3	172	65.75

Table 8.1 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Shinele

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	3,052	1,100	5,314	
Cereals	3,044	1,094	5,313	
Teff	-	-	-	-
Barley	-	-	-	-
Wheat	-	-	-	-
Maize	1,272	129	189	1.47
Sorghum	2,836	966	5,124	5.31
Finger millet	-	-	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	64	2	-	
Horse beans	-	-	-	-
Field peas	-	-	-	-
Haricot beans	9	0	-	-
Chick-peas	18	0	-	-
Lentils	46	1	-	-
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	-	-	-	-
Gibto	-	-	-	-
Oilseeds	124	3	1	
Neug	-	-	-	-
Linseed	-	-	-	-
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	116	3	1	0.18
Rape seed	-	-	-	-
Vegetables	383	13	1,118	
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	-	-	-	-
Tomatoes	279	7	1,118	149.21
Green peppers	172	5	-	-
Red peppers	27	0	-	-
Swiss chard	-	-	-	-
Root crops	344	13	1,385	
Beetroot	17	0	-	-
Carrot	-	-	-	-
Onion	169	4	487	119.46
Potatoes	-	-	-	-
Garlic	*	*	*	*
Taro / 'Godere'	-	-	-	-
Sweet potatoes	192	9	896	99.49
Fruit crops	1,932	246	25,555	
Avocados	9	0	-	-
Bananas	658	56	5,909	105.41
Guavas	168	2	-	-
Lemons	1,605	69	3,004	43.63
Mangoes	795	30	-	-
Oranges	1,173	88	16,533	187.83
Papayas	142	2	109	59.52
Pineapples	-	-	-	-
Chat	1,231	127	1,675	13.15
Coffee	236	6	64	10.81
Hops	-	-	-	-
Sugar cane	53	2	172	85.28

Table 8.2 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Jijiga

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	70,266	64,749	420,136	
Cereals	70,157	63,058	413,877	
Teff	*	*	-	-
Barley	23,602	5,706	38,992	6.83
Wheat	40,438	16,030	153,023	9.55
Maize	58,610	19,999	85,005	4.25
Sorghum	47,853	20,812	132,941	6.39
Finger millet	-	-	-	-
Oats / 'Aja'	5,548	490	3,916	7.99
Rice	-	-	-	-
Pulses	17,709	1,417	5,868	
Horse beans	*	*	-	-
Field peas	1,879	100	1,012	10.16
Haricot beans	12,126	647	3,763	5.82
Chick-peas	2,536	*	*	*
Lentils	2,623	169	538	3.18
Vetch	-	-	-	-
Soya beans	*	*	-	-
Fenugreek	2,323	130	226	1.74
Gibto	*	*	-	-
Oilseeds	4,604	273	392	
Neug	-	-	-	-
Linseed	4,386	265	392	1.48
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	-	-	-	-
Rape seed	*	*	-	-
Vegetables	1,977	31	-	
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	*	*	-	-
Tomatoes	1,670	*	-	-
Green peppers	*	*	-	-
Red peppers	-	-	-	-
Swiss chard	-	-	-	-
Root crops	13,253	1,122	82,539	
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	3,720	*	*	*
Potatoes	921	30	3,195	105.00
Garlic	6,614	357	59,229	165.75
Taro / 'Godere'	-	-	-	-
Sweet potatoes	6,499	598	-	-
Fruit crops	1,456	*	-	
Avocados	-	-	-	-
Bananas	-	-	-	-
Guavas	911	*	-	-
Lemons	*	*	-	-
Mangoes	*	*	-	-
Oranges	-	-	-	-
Papayas	385	*	-	-
Pineapples	-	-	-	-
Chat	33,532	7,081	91,059	12.86
Coffee	*	*	-	-
Hops	-	-	-	-
Sugar cane	-	-	-	-

Table 8.3 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Liben

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	11,459	6,282	21,036	
Cereals	11,289	5,748	18,741	
Teff	-	-	-	-
Barley	-	-	-	-
Wheat	*	-	-	-
Maize	10,972	5,532	18,417	3.33
Sorghum	1,304	*	*	*
Finger millet	-	-	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	4,157	507	2,295	
Horse beans	-	-	-	-
Field peas	-	-	-	-
Haricot beans	4,157	507	2,295	4.53
Chick-peas	-	-	-	-
Lentils	-	-	-	-
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	-	-	-	-
Gibto	-	-	-	-
Oilseeds	*	*	-	
Neug	-	-	-	-
Linseed	-	-	-	-
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	*	*	-	-
Rape seed	-	-	-	-
Vegetables	*	*	-	
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	*	*	-	-
Tomatoes	*	*	-	-
Green peppers	*	*	-	-
Red peppers	-	-	-	-
Swiss chard	-	-	-	-
Root crops	*	*	-	
Beetroot	*	*	-	-
Carrot	-	-	-	-
Onion	*	*	-	-
Potatoes	-	-	-	-
Garlic	-	-	-	-
Taro / 'Godere'	-	-	-	-
Sweet potatoes	*	*	-	-
Fruit crops	1,909	70	*	
Avocados	-	-	-	-
Bananas	442	*	-	-
Guavas	*	*	*	*
Lemons	*	*	-	-
Mangoes	828	*	-	-
Oranges	-	-	-	-
Papayas	1,008	*	-	-
Pineapples	-	-	-	-
Chat	-	-	-	-
Coffee	-	-	-	-
Hops	-	-	-	-
Sugar cane	*	*	-	-

Table 9 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Benishangul – Gumuz Region

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	132,632	166,285	1,698,970	
Cereals	130,975	113,461	1,390,374	
Teff	24,559	12,797	116,926	9.14
Barley	4,480	975	8,060	8.27
Wheat	*	*	*	*
Maize	115,284	27,412	500,188	18.25
Sorghum	92,809	49,862	511,593	10.26
Finger millet	36,064	20,230	231,653	11.45
Oats / 'Aja'	472	*	*	*
Rice	*	*	*	*
Pulses	67,212	7,233	53,031	
Horse beans	5,363	452	3,131	6.92
Field peas	3,054	439	2,796	6.36
Haricot beans	52,262	4,937	39,797	8.06
Chick-peas	3,828	463	2,155	4.65
Lentils	1,224	82	156	1.90
Vetch	*	*	-	-
Soya beans	8,166	805	4,814	5.98
Fenugreek	*	*	-	-
Gibto	*	*	*	*
Oilseeds	96,597	45,590	255,565	
Neug	36,515	16,647	66,895	4.02
Linseed	5,010	312	697	2.23
Groundnuts	24,198	5,001	55,787	11.16
Safflower	2,493	151	*	*
Sesame	67,930	23,291	130,382	5.60
Rape seed	5,436	189	693	3.68
Vegetables	34,822	961	22,667	
Lettuce	*	*	-	-
Head cabbage	711	2	107	67.81
Ethiopian cabbage	1,996	31	*	*
Tomatoes	1,904	13	*	*
Green peppers	4,496	39	3,445	88.07
Red peppers	28,104	876	16,578	18.93
Swiss chard	*	*	-	-
Root crops	31,922	627	72,013	
Beetroot	*	*	*	*
Carrot	404	*	*	*
Onion	5,788	50	6,761	133.98
Potatoes	3,295	121	12,238	101.03
Garlic	10,797	156	22,380	143.76
Taro / 'Godere'	756	*	*	*
Sweet potatoes	18,263	294	30,350	103.11
Fruit crops	44,203	1,274	86,638	
Avocados	317	*	-	-
Bananas	20,120	462	27,538	59.66
Guavas	2,608	13	145	10.80
Lemons	4,833	47	520	10.97
Mangoes	29,252	629	49,780	79.09
Oranges	4,688	*	1,609	*
Papayas	8,987	55	7,047	128.00
Pineapples	-	-	-	-
Chat	5,017	72	723	10.02
Coffee	15,525	*	*	*
Hops	10,198	124	*	*
Sugar cane	1,201	31	561	17.98

Table 9.1 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Metekel

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	47,955	70,752	774,409	
Cereals	47,364	48,517	610,220	
Teff	9,577	8,069	94,082	11.66
Barley	4,178	966	8,060	8.35
Wheat	*	*	*	*
Maize	41,663	8,059	176,850	21.94
Sorghum	21,120	12,318	116,743	9.48
Finger millet	21,717	16,971	192,652	11.35
Oats / 'Aja'	*	*	-	-
Rice	*	*	*	*
Pulses	21,495	2,797	24,807	
Horse beans	5,363	452	3,131	6.92
Field peas	2,863	436	2,796	6.41
Haricot beans	14,080	1,454	16,941	11.65
Chick-peas	1,492	*	*	*
Lentils	1,224	82	156	1.90
Vetch	*	*	-	-
Soya beans	902	*	-	-
Fenugreek	*	*	-	-
Gibto	*	*	*	*
Oilseeds	29,811	19,439	139,381	
Neug	12,169	9,144	40,344	4.41
Linseed	1,272	*	*	*
Groundnuts	11,964	4,371	52,389	11.99
Safflower	936	*	*	*
Sesame	15,348	5,573	44,774	8.03
Rape seed	4,478	123	480	3.91
Vegetables	13,770	321	8,205	
Lettuce	-	-	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	*	*	*	*
Tomatoes	*	*	-	-
Green peppers	2,643	23	1,958	84.15
Red peppers	10,416	279	4,948	17.72
Swiss chard	-	-	-	-
Root crops	12,683	285	36,023	
Beetroot	*	*	-	-
Carrot	*	*	-	-
Onion	*	*	*	*
Potatoes	1,633	102	10,667	105.00
Garlic	9,636	152	21,952	144.27
Taro / 'Godere'	*	*	*	*
Sweet potatoes	2,310	13	1,311	100.98
Fruit crops	9,053	265	9,513	
Avocados	-	-	-	-
Bananas	4,666	95	2,993	31.42
Guavas	*	*	*	*
Lemons	2,033	19	498	26.58
Mangoes	5,167	88	1,246	14.12
Oranges	*	*	*	*
Papayas	2,744	25	4,499	178.16
Pineapples	-	-	-	-
Chat	571	*	-	-
Coffee	4,738	*	*	*
Hops	7,534	111	-	-
Sugar cane	*	*	-	-

Table 9.2 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Asosa

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	64,262	63,593	563,599	
Cereals	63,641	44,086	471,621	
Teff	12,276	2,963	8,481	2.86
Barley	*	*	-	-
Wheat	*	*	-	-
Maize	55,283	12,642	201,193	15.91
Sorghum	56,534	26,689	244,836	9.17
Finger millet	9,710	1,764	17,110	9.70
Oats / 'Aja'	*	-	-	-
Rice	-	-	-	-
Pulses	35,455	3,434	23,367	
Horse beans	-	-	-	-
Field peas	*	*	-	-
Haricot beans	28,039	2,491	18,040	7.24
Chick-peas	2,277	*	*	*
Lentils	-	-	-	-
Vetch	*	*	-	-
Soya beans	7,082	742	4,773	6.43
Fenugreek	*	*	-	-
Gibto	*	*	*	*
Oilseeds	49,682	16,073	68,612	
Neug	21,753	7,045	24,758	3.51
Linseed	3,660	183	262	1.43
Groundnuts	11,210	599	3,235	5.40
Safflower	*	*	*	*
Sesame	35,964	8,179	40,205	4.92
Rape seed	*	*	-	-
Vegetables	16,380	566	12,519	
Lettuce	-	-	-	-
Head cabbage	483	*	*	*
Ethiopian cabbage	1,213	*	-	-
Tomatoes	1,029	*	*	*
Green peppers	823	*	*	*
Red peppers	14,360	535	10,756	20.10
Swiss chard	*	*	-	-
Root crops	15,590	280	30,118	
Beetroot	*	*	*	*
Carrot	*	*	*	*
Onion	3,149	*	*	*
Potatoes	*	*	*	*
Garlic	896	3	428	145.57
Taro / 'Godere'	*	*	-	-
Sweet potatoes	12,716	225	23,267	103.50
Fruit crops	28,761	687	52,521	
Avocados	*	*	-	-
Bananas	11,718	299	19,728	65.91
Guavas	1,990	*	*	*
Lemons	2,462	27	-	-
Mangoes	20,583	304	29,140	95.74
Oranges	3,009	21	1,231	59.57
Papayas	5,637	26	2,306	88.37
Pineapples	-	-	-	-
Chat	4,395	70	723	10.33
Coffee	10,396	234	1,159	4.95
Hops	2,607	*	*	*
Sugar cane	*	*	*	*

Table 9.3 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Kemashi

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	20,415	31,939	360,962	
Cereals	19,970	20,859	308,533	
Teff	2,707	1,766	14,364	8.13
Barley	*	*	-	-
Wheat	-	-	-	-
Maize	18,338	6,711	122,146	18.20
Sorghum	15,156	10,856	150,014	13.82
Finger millet	4,636	1,494	21,890	14.65
Oats / 'Aja'	*	*	*	*
Rice	*	*	-	-
Pulses	10,262	1,002	4,857	
Horse beans	-	-	-	-
Field peas	*	*	-	-
Haricot beans	10,143	992	4,816	4.86
Chick-peas	*	*	-	-
Lentils	-	-	-	-
Vetch	-	-	-	-
Soya beans	*	*	*	*
Fenugreek	-	-	-	-
Gibto	-	-	-	-
Oilseeds	17,104	10,078	47,572	
Neug	2,593	458	1,792	3.92
Linseed	*	*	-	-
Groundnuts	1,024	31	164	5.21
Safflower	*	*	-	-
Sesame	16,617	9,539	45,403	4.76
Rape seed	165	*	*	*
Vegetables	4,671	74	1,944	
Lettuce	*	*	-	-
Head cabbage	*	*	*	*
Ethiopian cabbage	*	2	202	99.65
Tomatoes	282	1	-	-
Green peppers	1,030	9	848	90.04
Red peppers	3,328	61	873	14.20
Swiss chard	*	*	-	-
Root crops	3,648	63	5,873	
Beetroot	-	-	-	-
Carrot	*	*	*	*
Onion	*	*	*	*
Potatoes	536	5	-	-
Garlic	265	*	-	-
Taro / 'Godere'	*	*	*	*
Sweet potatoes	3,237	57	5,772	102.04
Fruit crops	6,389	322	24,604	
Avocados	*	*	-	-
Bananas	3,736	67	4,816	71.86
Guavas	*	*	-	-
Lemons	339	2	22	10.55
Mangoes	3,501	237	19,395	81.90
Oranges	*	*	*	*
Papayas	606	4	243	65.36
Pineapples	-	-	-	-
Chat	*	*	-	-
Coffee	391	6	-	-
Hops	*	*	*	*
Sugar cane	228	6	463	71.85

Table 10 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

S.N.N.P. Region

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	2,196,163	913,209	10,271,639	
Cereals	2,027,270	731,172	8,775,198	
Teff	767,677	210,055	1,629,058	7.76
Barley	597,800	84,936	989,347	11.65
Wheat	626,620	131,485	1,962,844	14.93
Maize	1,199,744	207,410	3,155,711	15.21
Sorghum	549,905	92,009	975,934	10.61
Finger millet	50,632	4,767	57,442	12.05
Oats / 'Aja'	14,731	506	4,862	9.62
Rice	*	*	-	-
Pulses	1,337,131	170,831	1,447,619	
Horse beans	634,843	60,260	576,751	9.57
Field peas	330,280	44,645	361,559	8.10
Haricot beans	762,558	59,188	466,894	7.89
Chick-peas	36,116	3,925	28,006	7.13
Lentils	32,511	1,341	5,138	3.83
Vetch	5,385	*	*	*
Soya beans	5,322	48	-	-
Fenugreek	33,990	598	2,042	3.41
Gibto	*	*	*	*
Oilseeds	149,299	11,206	48,822	
Neug	13,228	*	*	*
Linseed	68,207	4,181	17,970	4.30
Groundnuts	18,111	1,192	1,263	1.06
Safflower	14,643	467	4,882	10.46
Sesame	1,504	*	*	*
Rape seed	40,664	1,008	3,179	3.15
Vegetables	1,471,424	28,023	1,862,616	
Lettuce	5,437	11	-	-
Head cabbage	56,788	396	17,065	43.08
Ethiopian cabbage	1,387,143	15,443	1,565,383	101.36
Tomatoes	18,789	*	*	*
Green peppers	105,443	723	61,235	84.68
Red peppers	144,065	11,134	178,264	16.01
Swiss chard	24,471	41	2,694	65.23
Root crops	1,320,880	58,710	5,468,011	
Beetroot	80,990	232	20,289	87.63
Carrot	34,814	184	5,588	30.35
Onion	183,067	1,525	171,804	112.63
Potatoes	337,938	9,421	791,728	84.04
Garlic	98,535	362	41,461	114.55
Taro / 'Godere'	548,607	17,811	1,431,897	80.40
Sweet potatoes	612,239	29,175	3,005,245	103.01
Fruit crops	977,598	26,685	1,751,251	
Avocados	381,137	2,571	153,698	59.79
Bananas	693,210	18,864	1,321,587	70.06
Guavas	38,564	142	2,151	15.17
Lemons	39,634	231	2,624	11.34
Mangoes	130,743	1,987	*	*
Oranges	119,042	1,009	51,692	51.25
Papayas	162,873	906	72,785	80.37
Pineapples	*	*	*	*
Chat	548,378	23,073	252,259	10.93
Coffee	1,254,428	77,755	470,137	6.05
Hops	188,695	1,753	26,198	14.95
Sugar cane	497,199	11,091	776,205	69.98

Table 10.1 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Gurage

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	217,254	85,538	1,321,609	
Cereals	213,191	69,828	1,140,137	
Teff	68,930	26,636	260,084	9.76
Barley	95,770	12,855	251,744	19.58
Wheat	104,847	17,412	362,832	20.84
Maize	96,278	10,550	228,940	21.70
Sorghum	20,365	2,276	34,820	15.30
Finger millet	-	-	-	-
Oats / 'Aja'	*	*	*	*
Rice	-	-	-	-
Pulses	118,603	11,100	158,745	
Horse beans	90,642	3,964	67,685	17.07
Field peas	26,860	3,274	58,220	17.78
Haricot beans	37,007	2,165	18,998	8.77
Chick-peas	*	*	*	*
Lentils	4,250	*	*	*
Vetch	*	*	*	*
Soya beans	-	-	-	-
Fenugreek	*	*	*	*
Gibto	-	-	-	-
Oilseeds	20,759	*	*	
Neug	*	*	*	*
Linseed	3,710	*	*	*
Groundnuts	*	*	-	-
Safflower	*	*	*	*
Sesame	-	-	-	-
Rape seed	4,986	*	*	*
Vegetables	195,554	3,050	190,405	
Lettuce	3,245	*	-	-
Head cabbage	24,994	48	5,806	120.01
Ethiopian cabbage	186,403	1,545	149,581	96.79
Tomatoes	*	*	*	*
Green peppers	10,383	*	*	*
Red peppers	18,911	*	*	*
Swiss chard	14,177	16	1,751	111.29
Root crops	121,214	1,876	154,135	
Beetroot	27,143	25	3,197	128.48
Carrot	13,765	*	*	*
Onion	20,059	34	-	-
Potatoes	64,552	1,106	106,215	96.02
Garlic	27,419	42	-	-
Taro / 'Godere'	34,999	540	41,467	76.74
Sweet potatoes	13,691	*	-	-
Fruit crops	80,180	1,193	48,294	
Avocados	24,313	85	1,968	23.16
Bananas	40,235	383	15,017	39.22
Guavas	4,661	26	416	16.04
Lemons	8,838	35	614	17.47
Mangoes	7,232	*	*	*
Oranges	43,958	591	25,582	43.29
Papayas	16,497	44	3,410	78.01
Pineapples	*	*	-	-
Chat	95,167	4,706	52,870	11.24
Coffee	96,125	2,985	11,777	3.95
Hops	57,239	*	*	*
Sugar cane	17,976	*	*	*

Table 10.2 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Hadiya

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	189,538	108,137	1,455,126	
Cereals	185,501	96,111	1,334,242	
Teff	102,529	28,247	274,094	9.70
Barley	44,067	2,782	22,807	8.20
Wheat	102,747	31,481	511,752	16.26
Maize	123,489	23,474	408,761	17.41
Sorghum	81,290	9,771	112,965	11.56
Finger millet	6,512	*	*	*
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	105,071	9,479	110,510	
Horse beans	52,493	5,355	64,040	11.96
Field peas	16,511	1,959	20,544	10.49
Haricot beans	58,372	1,755	*	*
Chick-peas	2,161	*	-	-
Lentils	6,456	*	*	*
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	*	*	*	*
Gibto	-	-	-	-
Oilseeds	30,471	2,548	10,374	
Neug	-	-	-	-
Linseed	18,025	*	10,258	*
Groundnuts	*	*	-	-
Safflower	*	*	-	-
Sesame	-	-	-	-
Rape seed	12,754	385	116	0.30
Vegetables	171,829	3,021	246,120	
Lettuce	*	*	-	-
Head cabbage	5,482	12	1,237	103.07
Ethiopian cabbage	170,404	2,240	221,785	99.00
Tomatoes	1,905	9	1,324	150.07
Green peppers	9,430	*	*	*
Red peppers	*	*	*	*
Swiss chard	3,421	6	752	119.89
Root crops	117,394	2,967	282,554	
Beetroot	25,702	62	7,285	116.95
Carrot	3,534	8	941	121.95
Onion	29,358	54	6,619	123.52
Potatoes	50,724	900	84,005	93.36
Garlic	4,459	6	818	147.93
Taro / 'Godere'	23,782	*	*	*
Sweet potatoes	41,205	1,432	144,581	100.98
Fruit crops	107,312	1,333	79,308	
Avocados	50,868	241	15,397	63.99
Bananas	85,556	994	61,147	61.52
Guavas	3,517	9	67	7.52
Lemons	2,167	*	*	*
Mangoes	6,334	18	279	15.88
Oranges	6,929	31	984	32.15
Papayas	12,575	35	1,298	37.06
Pineapples	-	-	-	-
Chat	51,521	1,247	14,073	11.28
Coffee	95,809	5,179	27,734	5.35
Hops	31,455	110	1,094	9.91
Sugar cane	60,402	1,097	82,582	75.29

Table 10.3 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Kembata - Tembaro

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	98,515	30,804	363,112	
Cereals	91,233	25,347	323,973	
Teff	43,583	7,555	59,598	7.89
Barley	17,690	1,155	15,346	13.29
Wheat	56,309	12,234	200,553	16.39
Maize	22,472	*	*	*
Sorghum	25,149	1,811	14,722	8.13
Finger millet	4,916	111	924	8.36
Oats / 'Aja'	667	13	-	-
Rice	-	-	-	-
Pulses	62,523	4,805	35,847	
Horse beans	43,955	2,941	24,276	8.25
Field peas	13,679	780	6,883	8.82
Haricot beans	29,912	1,040	*	*
Chick-peas	*	*	*	*
Lentils	*	*	-	-
Vetch	-	-	-	-
Soya beans	3,193	*	-	-
Fenugreek	*	*	-	-
Gibto	*	*	-	-
Oilseeds	6,564	*	*	
Neug	*	*	-	-
Linseed	3,488	*	*	*
Groundnuts	1,064	*	-	-
Safflower	-	-	-	-
Sesame	-	-	-	-
Rape seed	2,010	*	-	-
Vegetables	90,518	1,122	111,114	
Lettuce	-	-	-	-
Head cabbage	4,568	*	*	*
Ethiopian cabbage	90,109	1,012	98,661	97.50
Tomatoes	2,683	*	*	*
Green peppers	1,969	*	*	*
Red peppers	1,472	*	*	*
Swiss chard	551	*	*	*
Root crops	88,325	5,325	502,409	
Beetroot	5,440	48	5,933	123.92
Carrot	3,746	*	-	-
Onion	11,154	*	*	*
Potatoes	42,652	1,533	144,843	94.50
Garlic	4,776	25	3,437	138.48
Taro / 'Godere'	32,052	948	74,343	78.40
Sweet potatoes	49,467	2,554	254,136	99.50
Fruit crops	73,003	1,597	104,110	
Avocados	52,938	366	24,786	67.79
Bananas	57,963	1,089	72,711	66.77
Guavas	3,338	7	189	25.37
Lemons	4,158	13	-	-
Mangoes	14,113	45	3,651	80.46
Oranges	9,756	59	2,142	36.29
Papayas	7,299	17	631	36.44
Pineapples	*	*	-	-
Chat	17,834	446	5,193	11.65
Coffee	69,477	2,656	17,968	6.76
Hops	18,276	49	801	16.35
Sugar cane	39,107	887	62,903	70.94

Table 10.4 – Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2004/2005 (1997 E.C)

Sidama

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	402,584	70,677	1,012,488	
Cereals	344,230	51,133	830,857	
Teff	32,573	3,032	14,712	4.85
Barley	63,110	10,487	119,039	11.35
Wheat	43,304	6,075	87,380	14.38
Maize	297,159	31,316	609,725	19.47
Sorghum	8,960	169	-	-
Finger millet	*	*	-	-
Oats / 'Aja'	*	*	-	-
Rice	-	-	-	-
Pulses	196,943	19,349	181,631	
Horse beans	51,211	2,963	34,614	11.68
Field peas	16,606	*	*	*
Haricot beans	136,081	14,098	126,294	8.96
Chick-peas	-	-	-	-
Lentils	*	*	*	*
Vetch	-	-	-	-
Soya beans	*	*	-	-
Fenugreek	2,274	*	-	-
Gibto	*	-	-	-
Oilseeds	4,310	*	-	
Neug	-	-	-	-
Linseed	*	*	-	-
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	-	-	-	-
Rape seed	*	*	-	-
Vegetables	284,984	3,195	284,819	
Lettuce	-	-	-	-
Head cabbage	3,624	*	-	-
Ethiopian cabbage	268,333	2,728	276,931	101.50
Tomatoes	*	*	-	-
Green peppers	19,013	89	7,888	88.68
Red peppers	*	*	-	-
Swiss chard	*	*	-	-
Root crops	186,843	4,998	409,563	
Beetroot	3,821	*	*	*
Carrot	3,810	10	1,165	122.01
Onion	34,329	483	64,861	134.33
Potatoes	41,363	1,206	-	-
Garlic	*	*	*	*
Taro / 'Godere'	7,809	*	*	*
Sweet potatoes	116,071	3,166	327,678	103.50
Fruit crops	156,769	3,658	176,207	
Avocados	82,319	740	44,536	60.20
Bananas	119,739	1,855	129,628	69.88
Guavas	7,564	38	664	17.34
Lemons	*	*	-	-
Mangoes	*	*	*	*
Oranges	9,192	25	691	27.72
Papayas	*	*	*	*
Pineapples	*	*	-	-
Chat	229,308	12,442	132,820	10.68
Coffee	273,482	21,495	117,042	5.45
Hops	20,293	190	2,261	11.88
Sugar cane	137,830	4,849	341,954	70.52

Table 10.5 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Gedio

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	100,441	15,674	244,374	
Cereals	91,752	13,580	226,194	
Teff	*	*	-	-
Barley	22,983	3,456	47,909	13.86
Wheat	3,200	*	*	*
Maize	83,800	9,731	173,615	17.84
Sorghum	*	*	-	-
Finger millet	*	*	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	39,637	2,070	18,178	
Horse beans	22,735	1,167	11,976	10.26
Field peas	6,077	657	*	*
Haricot beans	19,565	245	1,217	4.97
Chick-peas	*	*	-	-
Lentils	-	-	-	-
Vetch	*	-	-	-
Soya beans	*	*	-	-
Fenugreek	*	*	-	-
Gibto	-	-	-	-
Oilseeds	1,785	23	*	
Neug	-	-	-	-
Linseed	*	*	*	*
Groundnuts	*	*	-	-
Safflower	*	*	-	-
Sesame	*	*	-	-
Rape seed	*	*	-	-
Vegetables	86,829	975	92,680	
Lettuce	*	*	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	85,115	935	89,582	95.83
Tomatoes	1,417	2	-	-
Green peppers	9,409	30	3,098	105.03
Red peppers	*	*	-	-
Swiss chard	*	*	-	-
Root crops	38,726	725	73,717	
Beetroot	*	*	-	-
Carrot	*	*	-	-
Onion	6,590	63	8,445	135.01
Potatoes	*	*	*	*
Garlic	*	*	-	-
Taro / 'Godere'	13,622	143	11,504	80.40
Sweet potatoes	21,349	505	52,728	104.50
Fruit crops	41,285	851	31,465	
Avocados	25,055	*	*	*
Bananas	26,171	550	12,964	23.59
Guavas	*	*	-	-
Lemons	-	-	-	-
Mangoes	*	*	-	-
Oranges	*	*	-	-
Papayas	*	*	-	-
Pineapples	-	-	-	-
Chat	6,657	303	4,582	15.12
Coffee	118,654	15,436	104,039	6.74
Hops	5,329	67	581	8.72
Sugar cane	27,700	892	55,303	62.00

Table 10.6 – Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2004/2005 (1997 E.C)

Wolayita

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	242,717	72,624	653,527	
Cereals	206,812	56,475	545,299	
Teff	119,890	25,049	139,913	5.59
Barley	26,979	1,331	11,136	8.36
Wheat	49,209	5,418	86,782	16.02
Maize	107,549	22,070	288,686	13.08
Sorghum	46,949	2,606	18,783	7.21
Finger millet	-	-	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	168,693	16,138	108,228	
Horse beans	38,589	1,750	13,857	7.92
Field peas	46,795	2,540	14,314	5.64
Haricot beans	128,234	11,209	76,154	6.79
Chick-peas	9,816	635	3,903	6.14
Lentils	*	*	-	-
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	-	-	-	-
Gibto	-	-	-	-
Oilseeds	2,140	11	-	
Neug	-	-	-	-
Linseed	1,861	10	-	-
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	-	-	-	-
Rape seed	-	-	-	-
Vegetables	106,863	1,169	83,145	
Lettuce	-	-	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	99,744	670	67,273	100.35
Tomatoes	*	*	-	-
Green peppers	13,067	134	13,199	98.36
Red peppers	6,759	*	*	*
Swiss chard	*	*	-	-
Root crops	230,107	19,470	2,012,257	
Beetroot	*	*	-	-
Carrot	3,700	*	-	-
Onion	7,756	*	*	*
Potatoes	44,009	1,176	120,383	102.37
Garlic	-	-	-	-
Taro / 'Godere'	114,009	3,191	255,312	80.00
Sweet potatoes	218,396	14,903	1,624,391	109.00
Fruit crops	165,320	2,749	208,127	
Avocados	108,981	679	44,314	65.28
Bananas	103,283	1,356	111,615	82.32
Guavas	8,378	21	559	26.15
Lemons	*	*	*	*
Mangoes	35,619	*	*	*
Oranges	16,107	89	6,847	76.91
Papayas	20,422	83	7,008	84.68
Pineapples	-	-	-	-
Chat	*	*	*	*
Coffee	181,939	5,196	32,966	6.34
Hops	7,707	20	524	25.85
Sugar cane	76,111	769	86,733	112.72

Table 10.7 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

South Omo

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	72,468	36,443	412,360	
Cereals	69,782	29,886	334,145	
Teff	13,563	5,673	28,840	5.08
Barley	16,848	4,167	39,004	9.36
Wheat	8,942	*	*	*
Maize	46,244	10,262	193,437	18.85
Sorghum	30,764	8,160	53,633	6.57
Finger millet	*	*	-	-
Oats / 'Aja'	*	*	-	-
Rice	-	-	-	-
Pulses	50,375	6,084	72,202	
Horse beans	17,331	1,965	20,540	10.45
Field peas	9,246	1,434	9,629	6.71
Haricot beans	36,931	2,662	41,908	15.74
Chick-peas	-	-	-	-
Lentils	695	*	*	*
Vetch	-	-	-	-
Soya beans	*	*	-	-
Fenugreek	*	*	-	-
Gibto	-	-	-	-
Oilseeds	12,875	474	6,012	
Neug	-	-	-	-
Linseed	4,085	*	*	*
Groundnuts	1,537	*	534	*
Safflower	8,028	277	4,766	17.17
Sesame	*	*	-	-
Rape seed	-	-	-	-
Vegetables	25,713	290	26,683	
Lettuce	-	-	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	24,220	263	26,677	101.50
Tomatoes	*	*	-	-
Green peppers	2,989	18	-	-
Red peppers	*	*	*	*
Swiss chard	-	-	-	-
Root crops	33,929	1,030	95,450	
Beetroot	451	*	-	-
Carrot	*	*	-	-
Onion	7,021	133	17,963	134.86
Potatoes	*	*	-	-
Garlic	*	*	*	*
Taro / 'Godere'	19,017	520	44,083	84.80
Sweet potatoes	13,452	313	31,629	101.00
Fruit crops	23,277	476	22,804	
Avocados	1,271	*	-	-
Bananas	18,441	382	19,099	50.04
Guavas	*	*	-	-
Lemons	*	*	-	-
Mangoes	5,397	52	2,244	43.50
Oranges	*	*	-	-
Papayas	3,775	36	1,461	40.95
Pineapples	*	*	-	-
Chat	1,196	*	-	-
Coffee	36,933	3,381	18,273	5.41
Hops	1,448	10	65	6.57
Sugar cane	5,939	149	5,757	38.51

Table 10.8 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Sheka

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	26,683	10,303	171,094	
Cereals	23,881	7,474	155,224	
Teff	4,190	726	4,953	6.82
Barley	1,333	137	815	5.94
Wheat	1,318	*	*	*
Maize	11,510	1,475	30,365	20.59
Sorghum	16,776	4,835	115,581	23.90
Finger millet	1,376	144	2,375	16.50
Oats / 'Aja'	*	*	-	-
Rice	*	*	-	-
Pulses	12,210	2,774	15,679	
Horse beans	4,936	864	4,791	5.54
Field peas	5,263	1,655	7,866	4.75
Haricot beans	6,317	253	3,022	11.92
Chick-peas	-	-	-	-
Lentils	-	-	-	-
Vetch	-	-	-	-
Soya beans	*	*	-	-
Fenugreek	*	*	-	-
Gibto	*	*	-	-
Oilseeds	1,455	55	*	
Neug	-	-	-	-
Linseed	*	*	-	-
Groundnuts	282	*	-	-
Safflower	*	*	-	-
Sesame	*	*	*	*
Rape seed	931	23	*	*
Vegetables	14,280	214	12,542	
Lettuce	-	-	-	-
Head cabbage	260	*	-	-
Ethiopian cabbage	9,409	87	8,555	98.77
Tomatoes	227	*	-	-
Green peppers	3,630	44	3,986	90.00
Red peppers	3,068	78	-	-
Swiss chard	*	*	-	-
Root crops	17,993	550	36,371	
Beetroot	*	*	-	-
Carrot	-	-	-	-
Onion	3,508	*	-	-
Potatoes	736	23	-	-
Garlic	2,875	7	880	130.41
Taro / 'Godere'	13,609	439	35,491	80.80
Sweet potatoes	915	3	-	-
Fruit crops	15,795	363	27,959	
Avocados	1,466	8	-	-
Bananas	7,722	124	11,571	93.28
Guavas	690	2	-	-
Lemons	840	3	-	-
Mangoes	9,332	88	3,153	35.71
Oranges	5,377	76	8,531	111.76
Papayas	7,463	45	4,704	104.70
Pineapples	698	*	-	-
Chat	5,133	191	2,022	10.58
Coffee	20,350	5,612	38,245	6.81
Hops	3,321	38	281	7.44
Sugar cane	9,170	124	4,053	32.79

Table 10.9 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Keffa

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	143,362	106,580	1,097,567	
Cereals	134,456	70,062	841,718	
Teff	100,162	22,996	187,403	8.15
Barley	58,151	11,533	85,161	7.38
Wheat	37,325	9,224	96,170	10.43
Maize	36,063	12,244	289,111	23.61
Sorghum	53,351	12,492	161,064	12.89
Finger millet	*	*	*	*
Oats / 'Aja'	*	*	*	*
Rice	-	-	-	-
Pulses	119,652	36,421	255,822	
Horse beans	89,169	18,344	138,734	7.56
Field peas	53,520	12,852	91,899	7.15
Haricot beans	48,939	5,211	25,189	4.83
Chick-peas	-	-	-	-
Lentils	*	*	-	-
Vetch	-	-	-	-
Soya beans	*	*	-	-
Fenugreek	*	*	-	-
Gibto	-	-	-	-
Oilseeds	9,208	96	*	
Neug	*	*	*	*
Linseed	7,189	72	-	-
Groundnuts	*	*	*	*
Safflower	*	*	-	-
Sesame	-	-	-	-
Rape seed	*	*	-	-
Vegetables	100,009	2,337	85,201	
Lettuce	*	*	-	-
Head cabbage	2,645	19	-	-
Ethiopian cabbage	87,200	806	81,367	101.00
Tomatoes	*	*	-	-
Green peppers	13,688	40	3,834	95.27
Red peppers	11,107	*	-	-
Swiss chard	-	-	-	-
Root crops	85,893	1,905	171,002	
Beetroot	4,110	21	2,562	122.46
Carrot	1,064	*	-	-
Onion	10,695	60	7,968	132.87
Potatoes	2,387	17	1,776	104.99
Garlic	16,205	*	*	*
Taro / 'Godere'	69,158	1,634	137,950	84.40
Sweet potatoes	6,104	*	*	*
Fruit crops	54,037	714	40,590	
Avocados	3,023	*	*	*
Bananas	47,635	633	36,529	57.67
Guavas	*	*	-	-
Lemons	*	2	-	-
Mangoes	1,966	*	*	*
Oranges	*	*	*	*
Papayas	7,319	38	3,489	91.82
Pineapples	*	*	-	-
Chat	7,985	62	921	14.95
Coffee	55,518	2,619	19,575	7.48
Hops	9,340	76	1,033	13.64
Sugar cane	36,360	538	34,214	63.56

Table 10.10 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Gamo Gofa

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	250,844	112,426	882,753	
Cereals	243,659	92,780	747,728	
Teff	88,284	31,418	210,674	6.71
Barley	120,053	21,935	222,962	10.16
Wheat	87,982	15,965	184,447	11.55
Maize	99,423	13,328	48,379	3.63
Sorghum	60,142	10,044	80,702	8.03
Finger millet	*	*	*	*
Oats / 'Aja'	*	*	-	-
Rice	-	-	-	-
Pulses	160,487	18,713	134,941	
Horse beans	75,701	6,656	65,517	9.84
Field peas	56,792	5,294	36,157	6.83
Haricot beans	94,787	6,381	31,644	4.96
Chick-peas	*	*	*	*
Lentils	*	*	*	*
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	10,941	*	*	*
Gibto	-	-	-	-
Oilseeds	15,397	*	85	
Neug	-	-	-	-
Linseed	5,755	76	46	0.60
Groundnuts	8,537	*	-	-
Safflower	*	*	*	*
Sesame	*	*	-	-
Rape seed	-	-	-	-
Vegetables	92,898	1,260	129,256	
Lettuce	*	*	-	-
Head cabbage	2,140	*	-	-
Ethiopian cabbage	85,248	994	95,817	96.44
Tomatoes	*	*	*	*
Green peppers	4,413	*	*	*
Red peppers	2,603	*	*	*
Swiss chard	*	*	-	-
Root crops	176,063	10,566	985,147	
Beetroot	3,297	*	-	-
Carrot	*	*	-	-
Onion	25,137	186	25,088	135.01
Potatoes	64,387	3,020	305,996	101.32
Garlic	*	*	*	*
Taro / 'Godere'	63,232	2,021	159,865	79.09
Sweet potatoes	96,174	5,272	484,997	92.00
Fruit crops	78,605	*	*	
Avocados	6,734	43	904	21.14
Bananas	65,020	*	*	*
Guavas	*	*	*	*
Lemons	6,447	*	*	*
Mangoes	24,033	*	*	*
Oranges	*	*	*	*
Papayas	21,253	169	6,553	38.82
Pineapples	*	*	-	-
Chat	6,613	*	*	*
Coffee	98,271	2,176	10,597	4.87
Hops	8,498	*	*	*
Sugar cane	17,742	227	9,702	42.70

Table 10.11 – Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2004/2005 (1997 E.C)

Bench – Maji

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	90,933	29,538	241,967	
Cereals	81,466	22,434	191,460	
Teff	31,004	6,959	46,341	6.66
Barley	11,153	1,516	10,905	7.19
Wheat	1,114	*	*	*
Maize	44,974	8,198	69,902	8.53
Sorghum	27,232	5,428	62,706	11.55
Finger millet	*	*	-	-
Oats / 'Aja'	*	*	-	-
Rice	-	-	-	-
Pulses	43,181	7,028	50,295	
Horse beans	20,030	2,403	20,514	8.54
Field peas	13,004	2,745	18,555	6.76
Haricot beans	25,354	1,879	11,227	5.98
Chick-peas	-	-	-	-
Lentils	-	-	-	-
Vetch	-	-	-	-
Soya beans	*	*	-	-
Fenugreek	-	-	-	-
Gibto	-	-	-	-
Oilseeds	2,175	76	212	
Neug	*	*	-	-
Linseed	938	*	*	*
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	*	*	-	-
Rape seed	*	*	*	*
Vegetables	57,700	539	52,256	
Lettuce	-	-	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	53,992	457	46,151	101.00
Tomatoes	515	*	-	-
Green peppers	9,779	*	*	*
Red peppers	1,173	*	-	-
Swiss chard	-	-	-	-
Root crops	90,172	3,729	304,144	
Beetroot	*	*	-	-
Carrot	*	*	-	-
Onion	3,468	12	1,615	135.14
Potatoes	1,282	*	*	*
Garlic	2,643	*	*	*
Taro / 'Godere'	85,858	3,655	298,276	81.60
Sweet potatoes	5,049	24	-	-
Fruit crops	62,056	1,246	112,947	
Avocados	3,856	37	1,229	33.34
Bananas	39,845	894	77,531	86.73
Guavas	594	*	*	*
Lemons	*	*	-	-
Mangoes	15,815	131	9,157	69.99
Oranges	3,490	20	-	-
Papayas	23,349	161	24,954	155.15
Pineapples	*	*	*	*
Chat	18,549	392	-	-
Coffee	79,876	7,206	47,668	6.61
Hops	8,382	37	474	12.69
Sugar cane	24,308	515	36,263	70.46

Table 10.12 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Yem Special Wereda

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	14,489	13,611	134,946	
Cereals	14,354	10,909	109,377	
Teff	10,093	3,916	27,550	7.04
Barley	7,824	986	9,485	9.62
Wheat	10,829	3,375	38,193	11.32
Maize	11,490	1,601	22,288	13.92
Sorghum	6,399	1,008	11,708	11.62
Finger millet	224	12	85	6.94
Oats / 'Aja'	515	12	67	5.73
Rice	-	-	-	-
Pulses	11,067	2,531	25,046	
Horse beans	9,656	1,434	15,856	11.05
Field peas	5,246	979	8,340	8.52
Haricot beans	1,520	27	320	11.77
Chick-peas	*	*	-	-
Lentils	1,867	81	498	6.14
Vetch	-	-	-	-
Soya beans	*	*	-	-
Fenugreek	1,505	6	32	5.21
Gibto	*	*	-	-
Oilseeds	2,509	171	524	
Neug	138	*	-	-
Linseed	1,620	137	459	3.34
Groundnuts	*	*	*	*
Safflower	-	-	-	-
Sesame	*	-	-	-
Rape seed	895	9	25	2.70
Vegetables	11,039	106	10,170	
Lettuce	*	*	-	-
Head cabbage	481	*	-	-
Ethiopian cabbage	10,846	96	9,884	103.00
Tomatoes	*	*	-	-
Green peppers	630	*	*	*
Red peppers	117	*	-	-
Swiss chard	*	*	-	-
Root crops	9,058	246	22,242	
Beetroot	989	2	209	128.73
Carrot	555	1	111	126.03
Onion	644	1	116	132.99
Potatoes	2,442	21	2,226	107.10
Garlic	2,425	6	753	126.91
Taro / 'Godere'	4,563	139	10,988	78.80
Sweet potatoes	2,982	76	7,840	102.51
Fruit crops	3,232	42	1,614	
Avocados	326	3	-	-
Bananas	2,602	27	1,561	57.51
Guavas	486	2	52	23.25
Lemons	*	*	-	-
Mangoes	277	*	-	-
Oranges	809	7	-	-
Papayas	*	*	-	-
Pineapples	*	*	-	-
Chat	5,947	156	1,933	12.42
Coffee	6,526	182	1,332	7.31
Hops	1,462	6	294	45.36
Sugar cane	4,515	93	5,018	53.94

Table 10.13 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Amaro Special Wereda

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	22,178	8,112	80,407	
Cereals	19,456	6,482	69,757	
Teff	7,917	2,890	35,621	12.33
Barley	9,899	1,180	9,508	8.06
Wheat	6,191	1,490	12,186	8.18
Maize	5,561	*	*	*
Sorghum	1,404	*	*	*
Finger millet	-	-	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	17,143	1,625	10,644	
Horse beans	8,879	323	1,631	5.06
Field peas	6,448	542	2,593	4.78
Haricot beans	6,242	253	2,553	10.11
Chick-peas	947	*	*	*
Lentils	2,169	100	372	3.72
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	*	*	-	-
Gibto	-	-	-	-
Oilseeds	173	5	*	
Neug	*	*	*	*
Linseed	*	*	-	-
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	*	*	-	-
Rape seed	-	-	-	-
Vegetables	12,836	194	19,535	
Lettuce	-	-	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	12,738	192	19,535	101.49
Tomatoes	*	*	-	-
Green peppers	*	*	-	-
Red peppers	-	-	-	-
Swiss chard	-	-	-	-
Root crops	9,090	136	4,505	
Beetroot	*	*	-	-
Carrot	-	-	-	-
Onion	7,197	88	4	0.05
Potatoes	*	*	-	-
Garlic	554	1	-	-
Taro / 'Godere'	559	2	126	80.10
Sweet potatoes	1,519	44	4,375	99.49
Fruit crops	5,446	114	3,084	
Avocados	1,969	23	-	-
Bananas	3,310	62	2,276	36.48
Guavas	245	*	-	-
Lemons	848	5	-	-
Mangoes	406	*	-	-
Oranges	531	4	-	-
Papayas	2,064	16	808	49.79
Pineapples	-	-	-	-
Chat	1,353	54	618	11.38
Coffee	10,843	1,411	12,040	8.54
Hops	160	1	12	9.37
Sugar cane	4,078	136	8,282	60.90

Table 10.14 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Burji Special Wereda

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	7,645	5,741	78,896	
Cereals	7,429	4,178	58,954	
Teff	4,505	1,555	22,762	14.64
Barley	3,993	307	4,698	15.31
Wheat	4,125	549	5,641	10.27
Maize	3,978	885	15,765	17.81
Sorghum	2,881	880	10,070	11.45
Finger millet	*	*	*	*
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	6,103	1,558	19,931	
Horse beans	471	9	116	12.68
Field peas	464	38	529	13.90
Haricot beans	5,406	1,013	14,938	14.74
Chick-peas	1,780	437	4,026	9.21
Lentils	333	28	105	3.73
Vetch	-	-	-	-
Soya beans	68	*	-	-
Fenugreek	624	29	217	7.40
Gibto	-	-	-	-
Oilseeds	279	5	*	
Neug	-	-	-	-
Linseed	199	5	3	0.56
Groundnuts	*	*	-	-
Safflower	*	*	*	*
Sesame	*	-	-	-
Rape seed	-	-	-	-
Vegetables	3,087	46	3,450	
Lettuce	*	*	-	-
Head cabbage	85	*	-	-
Ethiopian cabbage	2,590	40	3,450	87.31
Tomatoes	227	*	-	-
Green peppers	348	1	-	-
Red peppers	*	*	-	-
Swiss chard	152	0	-	-
Root crops	1,877	26	2,445	
Beetroot	122	0	-	-
Carrot	*	*	-	-
Onion	747	9	1,052	123.59
Potatoes	300	6	506	80.25
Garlic	*	*	-	-
Taro / 'Godere'	68	*	-	-
Sweet potatoes	782	10	888	85.58
Fruit crops	3,141	30	704	
Avocados	345	1	-	-
Bananas	1,819	16	437	26.75
Guavas	747	6	47	7.84
Lemons	258	1	6	8.53
Mangoes	*	*	-	-
Oranges	69	0	-	-
Papayas	1,109	5	214	43.76
Pineapples	-	-	-	-
Chat	179	1	-	-
Coffee	2,886	94	555	5.91
Hops	339	*	-	-
Sugar cane	1,703	22	2,423	107.86

Table 10.15 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Konso Special Wereda

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	33,450	20,631	152,856	
Cereals	33,384	17,294	130,586	
Teff	10,110	3,012	24,611	8.17
Barley	2,314	216	1,740	8.05
Wheat	*	*	*	*
Maize	26,852	5,849	57,026	9.75
Sorghum	26,206	8,105	46,683	5.76
Finger millet	*	*	*	*
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	20,065	3,170	22,270	
Horse beans	-	-	-	-
Field peas	*	*	-	-
Haricot beans	19,470	2,758	20,381	7.39
Chick-peas	2,991	393	1,866	4.75
Lentils	*	*	*	*
Vetch	*	*	-	-
Soya beans	*	*	-	-
Fenugreek	-	-	-	-
Gibto	-	-	-	-
Oilseeds	2,965	167	-	
Neug	-	-	-	-
Linseed	*	*	-	-
Groundnuts	*	*	-	-
Safflower	2,844	154	-	-
Sesame	-	-	-	-
Rape seed	-	-	-	-
Vegetables	2,596	96	-	
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	2,477	93	-	-
Tomatoes	-	-	-	-
Green peppers	*	*	-	-
Red peppers	-	-	-	-
Swiss chard	-	-	-	-
Root crops	1,066	14	*	
Beetroot	-	-	-	-
Carrot	*	*	-	-
Onion	*	*	-	-
Potatoes	*	*	-	-
Garlic	-	-	-	-
Taro / 'Godere'	*	*	-	-
Sweet potatoes	593	*	*	*
Fruit crops	10,472	184	3,724	
Avocados	-	-	-	-
Bananas	4,825	83	2,394	28.91
Guavas	868	*	-	-
Lemons	1,188	*	-	-
Mangoes	982	*	-	-
Oranges	*	*	-	-
Papayas	4,857	73	1,330	18.13
Pineapples	-	-	-	-
Chat	1,608	36	-	-
Coffee	7,300	213	1,148	5.38
Hops	1,476	*	*	*
Sugar cane	*	*	-	-

Table 10.16 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Derashe Special Wereda

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	22,626	16,306	165,039	
Cereals	22,426	14,607	149,077	
Teff	9,415	2,077	16,912	8.14
Barley	6,173	765	7,634	9.98
Wheat	2,400	363	2,628	7.25
Maize	16,334	3,688	40,323	10.93
Sorghum	16,786	7,698	81,579	10.60
Finger millet	*	*	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	13,080	1,691	15,962	
Horse beans	702	22	-	-
Field peas	511	*	-	-
Haricot beans	11,156	1,116	11,366	10.19
Chick-peas	2,866	484	4,343	8.97
Lentils	513	43	252	5.87
Vetch	-	-	-	-
Soya beans	*	*	-	-
Fenugreek	*	*	*	*
Gibto	-	-	-	-
Oilseeds	*	*	-	
Neug	-	-	-	-
Linseed	-	-	-	-
Groundnuts	-	-	-	-
Safflower	*	*	-	-
Sesame	*	*	-	-
Rape seed	*	*	-	-
Vegetables	5,612	55	4,406	
Lettuce	-	-	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	5,157	50	4,406	88.63
Tomatoes	-	-	-	-
Green peppers	*	*	-	-
Red peppers	*	*	-	-
Swiss chard	-	-	-	-
Root crops	3,676	81	5,480	
Beetroot	*	*	-	-
Carrot	*	*	-	-
Onion	2,000	37	4,673	126.91
Potatoes	418	*	*	*
Garlic	*	*	-	-
Taro / 'Godere'	238	*	-	-
Sweet potatoes	1,444	34	-	-
Fruit crops	4,585	121	674	
Avocados	*	*	-	-
Bananas	2,490	51	484	9.41
Guavas	*	*	-	-
Lemons	872	16	42	2.68
Mangoes	186	*	-	-
Oranges	*	*	-	-
Papayas	1,414	*	*	*
Pineapples	-	-	-	-
Chat	1,280	21	291	13.72
Coffee	9,138	177	1,356	7.66
Hops	3,468	45	201	4.42
Sugar cane	1,170	14	1,124	79.34

Table 10.17 – Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2004/2005 (1997 E.C)

Dawro

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	66,396	37,387	276,103	
Cereals	55,875	25,157	180,722	
Teff	38,495	13,203	68,129	5.16
Barley	7,420	1,284	9,876	7.69
Wheat	9,481	1,796	13,499	7.51
Maize	19,988	5,687	64,285	11.30
Sorghum	19,384	3,069	24,293	7.91
Finger millet	-	-	-	-
Oats / 'Aja'	1,818	*	*	*
Rice	*	*	-	-
Pulses	45,047	11,909	94,039	
Horse beans	24,493	5,335	47,337	8.87
Field peas	15,259	4,787	33,992	7.10
Haricot beans	17,295	1,534	12,006	7.83
Chick-peas	358	30	-	-
Lentils	3,944	223	704	3.16
Vetch	*	*	-	-
Soya beans	*	*	-	-
Fenugreek	-	-	-	-
Gibto	-	-	-	-
Oilseeds	7,164	321	1,341	
Neug	*	-	-	-
Linseed	5,567	149	662	4.44
Groundnuts	1,618	*	*	*
Safflower	-	-	-	-
Sesame	-	-	-	-
Rape seed	*	*	-	-
Vegetables	45,157	501	36,289	
Lettuce	-	-	-	-
Head cabbage	586	*	-	-
Ethiopian cabbage	43,717	358	34,750	97.00
Tomatoes	-	-	-	-
Green peppers	2,975	7	668	89.15
Red peppers	*	*	*	*
Swiss chard	-	-	-	-
Root crops	54,104	3,141	255,068	
Beetroot	*	*	-	-
Carrot	-	-	-	-
Onion	2,584	10	1,165	116.65
Potatoes	666	14	1,363	96.05
Garlic	1,388	*	*	*
Taro / 'Godere'	48,960	2,732	215,319	78.80
Sweet potatoes	12,947	377	36,413	96.50
Fruit crops	31,262	392	29,220	
Avocados	5,373	25	1,675	66.21
Bananas	24,734	261	19,544	74.77
Guavas	*	*	*	*
Lemons	997	*	-	-
Mangoes	923	*	-	-
Oranges	3,391	11	1,305	114.56
Papayas	11,859	84	6,559	77.66
Pineapples	-	-	-	-
Chat	630	*	*	*
Coffee	32,310	771	5,185	7
Hops	5,116	17	292	17
Sugar cane	11,616	110	6,518	59

Table 10.18 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Basketo Special Wereda

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	10,176	3,862	49,920	
Cereals	9,889	3,435	46,548	
Teff	6,128	1,768	13,102	7.41
Barley	2,372	413	16,157	39.14
Wheat	*	*	-	-
Maize	8,357	867	12,334	14.23
Sorghum	4,282	370	4,956	13.38
Finger millet	-	-	-	-
Oats / 'Aja'	*	*	-	-
Rice	-	-	-	-
Pulses	8,634	409	3,371	
Horse beans	768	10	40	4.08
Field peas	2,946	115	777	6.75
Haricot beans	7,894	283	2,554	9.03
Chick-peas	*	*	-	-
Lentils	*	*	-	-
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	*	*	-	-
Gibto	-	-	-	-
Oilseeds	1,294	18	-	
Neug	*	*	-	-
Linseed	260	6	-	-
Groundnuts	202	*	-	-
Safflower	810	8	-	-
Sesame	*	*	-	-
Rape seed	*	*	-	-
Vegetables	2,407	20	1,856	
Lettuce	-	-	-	-
Head cabbage	94	*	-	-
Ethiopian cabbage	2,247	19	1,856	97.97
Tomatoes	*	*	-	-
Green peppers	66	*	-	-
Red peppers	-	-	-	-
Swiss chard	-	-	-	-
Root crops	8,472	317	30,082	
Beetroot	-	-	-	-
Carrot	*	*	-	-
Onion	1,576	5	-	-
Potatoes	560	3	360	104.43
Garlic	123	0	-	-
Taro / 'Godere'	4,429	67	5,535	82.39
Sweet potatoes	6,752	241	24,187	100.50
Fruit crops	7,052	90	-	
Avocados	314	1	-	-
Bananas	6,471	79	-	-
Guavas	*	*	-	-
Lemons	*	*	-	-
Mangoes	1,611	6	-	-
Oranges	86	*	-	-
Papayas	461	3	-	-
Pineapples	*	*	-	-
Chat	*	*	-	-
Coffee	9,354	414	-	-
Hops	1,535	12	-	-
Sugar cane	3,979	50	-	-

Table 10.19 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Konta Special Wereda

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	14,732	9,123	89,009	
Cereals	13,049	6,009	58,335	
Teff	9,766	3,474	31,123	8.96
Barley	2,064	397	3,868	9.73
Wheat	1,471	177	1,901	10.71
Maize	3,649	537	-	-
Sorghum	5,357	1,415	21,440	15.15
Finger millet	*	*	-	-
Oats / 'Aja'	*	*	*	*
Rice	-	-	-	-
Pulses	10,427	3,107	30,660	
Horse beans	6,805	1,911	20,380	10.66
Field peas	3,841	841	7,704	9.16
Haricot beans	5,012	343	2,545	7.43
Chick-peas	-	-	-	-
Lentils	*	*	-	-
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	*	*	*	*
Gibto	-	-	-	-
Oilseeds	365	*	*	
Neug	*	*	-	-
Linseed	281	*	*	*
Groundnuts	*	*	-	-
Safflower	-	-	-	-
Sesame	-	-	-	-
Rape seed	-	-	-	-
Vegetables	5,480	39	2,747	
Lettuce	-	-	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	4,383	25	2,469	97.95
Tomatoes	-	-	-	-
Green peppers	485	2	225	100.54
Red peppers	1,319	11	52	4.71
Swiss chard	-	-	-	-
Root crops	13,128	1,257	101,900	
Beetroot	*	*	-	-
Carrot	-	-	-	-
Onion	561	10	-	-
Potatoes	480	15	1,319	88.71
Garlic	908	4	-	-
Taro / 'Godere'	12,540	1,212	98,877	81.60
Sweet potatoes	852	17	1,703	101.15
Fruit crops	9,251	169	20,143	
Avocados	850	5	-	-
Bananas	8,082	136	11,884	87.12
Guavas	*	*	-	-
Lemons	358	1	328	237.85
Mangoes	213	*	-	-
Oranges	807	5	-	-
Papayas	3,586	20	7,931	397.33
Pineapples	-	-	-	-
Chat	1,121	11	-	-
Coffee	6,897	190	925	4.88
Hops	1,656	8	99	12.21
Sugar cane	3,138	27	3,057	112.61

Table 10.20 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Silitie

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	137,380	92,056	984,789	
Cereals	133,742	82,471	918,207	
Teff	48,577	14,461	102,541	7.09
Barley	74,162	7,787	95,670	12.29
Wheat	82,975	20,687	273,101	13.20
Maize	103,237	29,781	355,589	11.94
Sorghum	69,831	8,277	70,927	8.57
Finger millet	14,611	1,408	19,369	13.76
Oats / 'Aja'	*	*	*	*
Rice	-	-	-	-
Pulses	107,883	8,783	62,678	
Horse beans	75,447	2,768	24,004	8.67
Field peas	30,932	1,972	18,253	9.26
Haricot beans	48,244	3,139	15,193	4.84
Chick-peas	5,899	283	370	1.31
Lentils	3,542	105	*	*
Vetch	*	*	*	*
Soya beans	*	*	-	-
Fenugreek	7,707	239	*	*
Gibto	*	*	*	*
Oilseeds	25,380	802	3,903	
Neug	-	-	-	-
Linseed	11,100	374	1,450	3.88
Groundnuts	*	*	-	-
Safflower	*	*	*	*
Sesame	-	-	-	-
Rape seed	15,893	424	2,430	5.73
Vegetables	128,099	7,104	347,629	
Lettuce	*	*	-	-
Head cabbage	4,947	14	1,690	123.64
Ethiopian cabbage	116,303	2,040	236,928	116.15
Tomatoes	3,552	8	1,148	150.20
Green peppers	2,206	*	-	-
Red peppers	54,628	5,031	107,863	21.44
Swiss chard	1,104	*	-	-
Root crops	28,601	175	113	
Beetroot	5,243	6	-	-
Carrot	2,333	1	113	91.80
Onion	8,126	15	-	-
Potatoes	12,226	*	-	-
Garlic	8,202	25	-	-
Taro / 'Godere'	-	-	-	-
Sweet potatoes	2,142	5	-	-
Fruit crops	39,874	137	4,719	
Avocados	9,785	14	323	23.56
Bananas	23,969	62	2,499	40.44
Guavas	3,890	4	-	-
Lemons	3,857	9	174	19.56
Mangoes	1,304	1	-	-
Oranges	8,855	*	-	-
Papayas	10,482	17	1,723	102.38
Pineapples	*	*	-	-
Chat	72,916	1,950	25,525	13.09
Coffee	38,920	320	1,377	4.30
Hops	2,197	*	-	-
Sugar cane	11,956	60	3,477	58.07

Table 10.21 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Alaba Special Wereda

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	31,754	27,635	403,698	
Cereals	31,703	25,521	382,657	
Teff	17,583	5,401	60,096	11.13
Barley	3,444	247	3,880	15.70
Wheat	11,670	2,927	58,687	20.05
Maize	31,338	12,804	204,934	16.01
Sorghum	25,235	3,235	46,278	14.30
Finger millet	11,604	907	8,783	9.69
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	20,308	2,086	20,939	
Horse beans	831	77	841	10.97
Field peas	*	*	-	-
Haricot beans	18,822	1,825	19,584	10.73
Chick-peas	*	*	-	-
Lentils	1,008	38	-	-
Vetch	-	-	-	-
Soya beans	*	*	-	-
Fenugreek	3,890	140	513	3.67
Gibto	-	-	-	-
Oilseeds	1,908	28	103	
Neug	-	-	-	-
Linseed	1,592	22	103	4.65
Groundnuts	-	-	-	-
Safflower	*	*	-	-
Sesame	*	*	-	-
Rape seed	*	*	-	-
Vegetables	27,933	2,688	122,315	
Lettuce	*	*	-	-
Head cabbage	343	2	196	129.87
Ethiopian cabbage	26,507	794	89,727	113.00
Tomatoes	*	*	-	-
Green peppers	*	*	-	-
Red peppers	15,143	1,890	32,392	17.14
Swiss chard	*	*	-	-
Root crops	5,148	173	18,940	
Beetroot	249	*	-	-
Carrot	404	1	-	-
Onion	263	*	*	*
Potatoes	3,969	164	18,291	111.30
Garlic	399	*	-	-
Taro / 'Godere'	*	*	-	-
Sweet potatoes	351	*	*	*
Fruit crops	5,647	29	1,161	
Avocados	1,310	5	-	-
Bananas	3,299	13	942	71.37
Guavas	753	2	-	-
Lemons	359	2	-	-
Mangoes	*	*	-	-
Oranges	*	*	-	-
Papayas	1,953	6	219	38.62
Pineapples	-	-	-	-
Chat	18,843	822	9,908	12.06
Coffee	3,821	41	332	8.00
Hops	-	-	-	-
Sugar cane	990	4	192	46.85

Table 11 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Harari Region

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	14,607	7,594	45,689	
Cereals	14,580	5,891	36,874	
Teff	*	*	-	-
Barley	835	36	184	5.10
Wheat	821	*	*	*
Maize	11,533	1,149	10,148	8.83
Sorghum	13,777	4,645	26,055	5.61
Finger millet	-	-	-	-
Oats / 'Aja'	*	*	*	*
Rice	*	*	-	-
Pulses	1,110	43	*	
Horse beans	*	*	-	-
Field peas	*	*	*	*
Haricot beans	842	31	-	-
Chick-peas	*	*	*	*
Lentils	-	-	-	-
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	*	*	-	-
Gibto	-	-	-	-
Oilseeds	7,658	1,660	8,608	
Neug	-	-	-	-
Linseed	*	*	-	-
Groundnuts	7,504	1,550	8,522	5.50
Safflower	-	-	-	-
Sesame	1,496	107	86	0.80
Rape seed	*	*	-	-
Vegetables	152	*	-	
Lettuce	-	-	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	*	*	-	-
Tomatoes	*	*	-	-
Green peppers	*	*	-	-
Red peppers	-	-	-	-
Swiss chard	-	-	-	-
Root crops	2,714	141	6,485	
Beetroot	*	*	-	-
Carrot	-	-	-	-
Onion	*	*	-	-
Potatoes	*	*	-	-
Garlic	*	*	-	-
Taro / 'Godere'	*	*	-	-
Sweet potatoes	1,964	85	6,485	75.86
Fruit crops	5,171	163	301	
Avocados	*	*	-	-
Bananas	818	9	179	19.20
Guavas	1,032	*	-	-
Lemons	270	*	-	-
Mangoes	3,203	115	122	1.06
Oranges	*	*	-	-
Papayas	1,356	12	-	-
Pineapples	-	-	-	-
Chat	12,072	2,254	36,360	16.13
Coffee	1,391	32	145	4.51
Hops	*	*	-	-
Sugar cane	*	*	-	-

Table 12 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Addis Abeba

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	4,219	8,211	126,179	
Cereals	3,922	6,093	91,776	
Teff	3,178	2,821	31,884	11.30
Barley	445	190	2,428	12.80
Wheat	3,178	3,052	57,104	18.71
Maize	505	13	104	8.08
Sorghum	40	*	*	*
Finger millet	-	-	-	-
Oats / 'Aja'	100	9	189	20.72
Rice	-	-	-	-
Pulses	3,252	2,106	34,398	
Horse beans	1,327	161	2,040	12.67
Field peas	441	55	644	11.81
Haricot beans	87	1	-	-
Chick-peas	2,129	963	16,768	17.41
Lentils	958	207	2,342	11.30
Vetch	2,281	629	11,879	18.88
Soya beans	*	*	-	-
Fenugreek	785	90	724	8.07
Gibto	-	-	-	-
Oilseeds	363	12	5	
Neug	-	-	-	-
Linseed	78	9	2	0.26
Groundnuts	-	-	-	-
Safflower	92	0	-	-
Sesame	-	-	-	-
Rape seed	224	2	2	1.38
Vegetables	1,859	19	-	
Lettuce	117	0	-	-
Head cabbage	142	4	-	-
Ethiopian cabbage	1,651	11	-	-
Tomatoes	50	*	-	-
Green peppers	330	0	-	-
Red peppers	*	*	-	-
Swiss chard	191	*	-	-
Root crops	2,537	69	-	
Beetroot	365	7	-	-
Carrot	598	49	-	-
Onion	155	*	-	-
Potatoes	149	5	-	-
Garlic	2,183	7	-	-
Taro / 'Godere'	-	-	-	-
Sweet potatoes	-	-	-	-
Fruit crops	*	*	-	
Avocados	*	*	-	-
Bananas	-	-	-	-
Guavas	*	-	-	-
Lemons	-	-	-	-
Mangoes	*	*	-	-
Oranges	-	-	-	-
Papayas	-	-	-	-
Pineapples	-	-	-	-
Chat	70	0	4	9.42
Coffee	23	*	-	-
Hops	710	6	143	23.39
Sugar cane	*	*	-	-

Table 13 – Area, Production and Yield of Crops for Private Peasant Holdings
for Meher Season 2004/2005 (1997 E.C)

Dire Dawa

Crop	Number of holders	Area in hectare	Production in quintals	Yield (qt / ha)
Grain	14,973	7,638	50,206	
Cereals	14,973	7,211	47,729	
Teff	*	*	-	-
Barley	*	*	*	*
Wheat	*	*	*	*
Maize	4,938	281	3,071	10.92
Sorghum	14,841	6,892	44,261	6.42
Finger millet	-	-	-	-
Oats / 'Aja'	*	*	-	-
Rice	-	-	-	-
Pulses	5,939	359	2,190	
Horse beans	*	*	-	-
Field peas	*	*	-	-
Haricot beans	5,591	325	2,030	6.25
Chick-peas	-	-	-	-
Lentils	*	*	*	*
Vetch	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	*	*	*	*
Gibto	-	-	-	-
Oilseeds	1,188	68	286	
Neug	-	-	-	-
Linseed	-	-	-	-
Groundnuts	699	56	286	5.09
Safflower	-	-	-	-
Sesame	463	*	-	-
Rape seed	*	*	-	-
Vegetables	2,367	64	8,651	
Lettuce	-	-	-	-
Head cabbage	*	*	-	-
Ethiopian cabbage	*	*	-	-
Tomatoes	2,168	60	8,651	144.76
Green peppers	157	*	-	-
Red peppers	*	*	-	-
Swiss chard	-	-	-	-
Root crops	2,515	108	3,581	
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	1,181	*	-	-
Potatoes	*	*	-	-
Garlic	-	-	-	-
Taro / 'Godere'	-	-	-	-
Sweet potatoes	1,548	33	3,581	108.00
Fruit crops	4,065	69	-	
Avocados	*	*	-	-
Bananas	475	4	-	-
Guavas	696	5	-	-
Lemons	*	*	-	-
Mangoes	1,105	19	-	-
Oranges	*	*	-	-
Papayas	2,420	36	-	-
Pineapples	-	-	-	-
Chat	9,863	954	-	-
Coffee	3,550	99	358	3.63
Hops	-	-	-	-
Sugar cane	*	*	-	-

APPENDIX I

ESTIMATION PROCEDURES OF TOTAL, RATIO AND SAMPLING ERRORS

APPENDIX I Estimation Procedures of Totals, Ratios and Sampling Errors

The following formulas were used to estimate total area of land under specific crop, production and yield of specific crop in a stratum.

1. For estimating Total Area of Land under Specific Crop:

$$\hat{A}_h = \sum_{i=1}^{n_h} W_{hi} \sum_{j=1}^{h_{hi}} a_{hij} = \sum_{i=1}^{n_h} W_{hi} a_{hi}$$

in which, $W_{hi} = \frac{M_h H_{hi}}{n_h m_{hi} h_{hi}}$ is the basic weight.

Where:

h represents the stratum

n_h is the total number of sample EAs successfully covered in the h[th] stratum.

M_h is the measure of size of the h[th] stratum as obtained from the sampling frame.

m_{hi} is the measure of size of the i[th] sample EA in the h[th] stratum obtained from the sampling frame.

H_{hi} is the total number of agricultural households of the i[th] sample EA in the h[th] stratum.

h_{hi} is the number of sample agricultural households successfully covered in the i[th] sample EA in the h[th] stratum.

a_{hij} is the value of area for agricultural households j, in the i[th] EA in the h[th] strtatum under a specific crop.

a_{hi} is the sample total area under specific crop for EA i in stratum h

$\hat{A}_h$ estimate of total area under specific crop in stratum h

2. For estimating Total Production of Specific Crop:

$$\hat{\mathrm{P}}_h = \sum_{i=1}^{n_h} W_{hi} \mathrm{P}_{hi}$$

in which, $\mathrm{P}_{hi} = a_{hi} * \bar{Y}_{hi}$

Where, $\bar{Y}_{hi} = \frac{Y_{hi}}{16C_{hi}}$ is average yield per square meter of a specific crop in the i[th] EA in the h[th] stratum.

$\hat{\mathrm{P}}_h$ is estimate of total quantity of production of a specific crop in the h[th] stratum.

Y_{hi} is sample total quantity of production of a specific crop from defined area of land for crop cutting of a crop in the i[th] EA in the h[th] stratum.

P_{hi} is estimate of total quantity of production under specific crop for EA i in stratum h.

C_{hi} is the number of crop cutting of a specific crop in the i[th] EA in the h[th] stratum.

3. For estimating yield of a specific crop in stratum h:

$$\hat{Y}_h = \frac{\hat{P}_h}{\hat{A}_h}$$

4. Sampling Variance of Estimates:

Sampling variance for the estimate of stratum total of area, production and yield for a specific crop are estimated by the following formulas.

$$Var(\hat{A}_h) = (1 - f_h)\frac{n_h}{n_h - 1}\sum_{i=1}^{n_h}\left(\hat{A}_{hi} - \frac{\hat{A}_h}{n_h}\right)^2 + f_h\sum_{i=1}^{n_h}(1 - f_{hi})\left(\frac{h_{hi}}{h_{hi} - 1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{A}_{hij} - \frac{\hat{A}_{hi}}{h_{hi}}\right)^2$$

$$Var(\hat{P}_h) = (1 - f_h)\frac{n_h}{n_h - 1}\sum_{i=1}^{n_h}\left(\hat{P}_{hi} - \frac{\hat{P}_h}{n_h}\right)^2 + f_h\sum_{i=1}^{n_h}(1 - f_{hi})\left(\frac{h_{hi}}{h_{hi} - 1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{P}_{hij} - \frac{\hat{P}_{hi}}{h_{hi}}\right)^2$$

$$Var(\hat{Y}_h) = \frac{1}{\hat{A}_h^{\,2}}\left[Var(\hat{P}_h) + \hat{Y}_h^{\,2}Var(\hat{A}_h) - 2\hat{Y}_h Cov(\hat{P}_h, \hat{A}_h)\right]$$

Where,

$$Cov(\hat{P}_h, \hat{A}_h) = (1 - f_h)\frac{n_h}{n_h - 1}\sum_{i=1}^{n_h}\left(\hat{A}_{hi} - \frac{\hat{A}_h}{n_h}\right)\left(\hat{P}_{hi} - \frac{\hat{P}_h}{n_h}\right) + f_h\sum_{i=1}^{n_h}(1 - f_{hi})\left(\frac{h_{hi}}{h_{hi} - 1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{A}_{hij} - \frac{\hat{A}_{hi}}{h_{hi}}\right)\left(\hat{P}_{hij} - \frac{\hat{P}_{hi}}{h_{hi}}\right)$$

f_h = average first stage probability of selection of EAs within stratum *h*.

$f_{hi} = \frac{h_{hi}}{H_{hi}}$ = average second stage probability of selection within the *i*[th] sample EA in stratum *h*.

$\hat{A}_{hi}, \hat{P}_{hi}$ are weighted total area and production, respectively, of a specific crop in the i[th] EA and h[th] stratum.

$\hat{A}_{hij}, \hat{P}_{hij}$ are weighted values of area and production, respectively, from j[th] agricultural household in the i[th] EA and h[th] stratum under a specific crop.

Since all strata are independent, the total variance at regional and country level is computed by aggregating the result obtained at Zone/Special Wereda level, i.e.

$$Var(\hat{A}) = \sum_{h}^{L} Var(\hat{A}_h), Var(\hat{P}) = \sum_{h}^{L} Var(\hat{P}_h) and Var(\hat{Y}) = \sum_{h}^{L} (\hat{Y}_h)$$

Where, *L* is the number of strata (Zone/Special Wereda).

In estimating the sampling variance by the above formula, selection of EAs within a stratum is assumed to be with replacement. By so doing the variance estimate may be slightly over estimated but it greatly simplifies the estimation procedure.

5. Coefficient of Variation (CV) of Estimates:

Coefficient of Variation (CV) in percentage of estimate of stratum total of area, production and yield for a specific crop are given by:

$$CV(\hat{A}_h) = \frac{\sqrt{Var(\hat{A}_h)}}{\hat{A}_h} * 100, CV(\hat{P}_h) = \frac{\sqrt{Var(\hat{P}_h)}}{\hat{P}_h} * 100, CV(\hat{Y}_h) = \frac{\sqrt{Var(\hat{Y}_h)}}{\hat{Y}_h} * 100$$

6. Ninety-five percent confidence interval (CI) of stratum total of area:

$$\hat{A}_h \pm 1.96 * SE(\hat{A}_h) \quad ,$$

Where $SE(\hat{A}_h) = \sqrt{Var(\hat{A}_h)}$ is standard error of the estimate of the stratum total of area.

Estimates of standard error and confidence interval for the other estimates can also be calculated by adopting the above formulas.

APPENDIX II

STANDARD ERRORS AND COEFFICIENTS OF VARIATION OF ESTIMATES

Estimate of Holders, Area, Production, Standard Errors and Coefficient of Variations
For Crops 2004/2005 (1997 E.C)

Ethiopia

Crop	Holder	Standard Error	CV %	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	10,443,717	59,208	0.57	9,811,070	155,539	1.59	119,068,102	2,516,101	2.11
Cereals	10,145,607	60,349	0.59	7,637,524	127,581	1.67	100,308,355	2,311,457	2.30
Teff	4,857,682	88,798	1.83	2,135,553	64,175	3.01	20,255,214	704,769	3.48
Barley	3,902,139	89,510	2.29	1,095,436	67,297	6.14	13,280,520	1,125,915	8.48
Wheat	3,937,682	94,531	2.40	1,398,215	72,463	5.18	21,766,030	1,380,135	6.34
Maize	6,677,356	95,007	1.42	1,392,916	36,076	2.59	23,941,622	825,417	3.45
Sorghum	3,674,865	82,622	2.25	1,253,620	46,591	3.72	17,159,543	777,701	4.53
Finger millet	1,114,407	48,417	4.34	312,931	18,156	5.80	3,328,038	227,459	6.83
Oats / 'Aja'	327,734	31,548	9.63	45,131	9,174	20.33	566,754	139,538	24.62
Rice	16,936	5,988	35.36	*	*	*	*	*	*
Pulses	6,169,683	82,928	1.34	1,349,116	36,568	2.71	13,495,792	438,644	3.25
Horse beans	3,358,747	77,929	2.32	463,174	17,532	3.79	5,519,838	248,663	4.50
Field peas	1,604,211	54,514	3.40	254,365	12,427	4.89	2,283,354	134,122	5.87
Haricot beans	2,353,250	69,390	2.95	245,597	15,347	6.25	2,113,471	154,174	7.29
Chick-peas	666,100	39,114	5.87	167,569	13,270	7.92	1,615,951	139,316	8.62
Lentils	643,636	32,108	4.99	76,642	6,275	8.19	545,550	63,559	11.65
Vetch	489,389	36,353	7.43	112,425	11,334	10.08	1,250,284	144,114	11.53
Soya beans	33,823	5,061	14.96	2,606	716	27.49	8,335	3,122	37.46
Fenugreek	479,676	27,974	5.83	16,325	1,716	10.51	115,803	15,875	13.71
Gibto	69,688	11,461	16.45	10,413	2,394	22.99	43,205	10,680	24.72
Oilseeds	3,200,742	71,051	2.22	824,430	37,087	4.50	5,263,955	291,861	5.54
Neug	1,182,283	49,778	4.21	358,828	22,529	6.28	1,872,135	149,742	8.00
Linseed	1,267,738	52,040	4.10	250,702	24,001	9.57	1,518,640	172,775	11.38
Groundnuts	169,600	24,369	14.37	27,084	6,133	22.64	290,532	74,842	25.76
Safflower	175,690	19,231	10.95	9,715	1,374	14.15	70,392	10,718	15.23
Sesame	463,741	35,636	7.68	136,220	15,699	11.52	1,153,882	160,193	13.88
Rape seed	816,876	40,023	4.90	41,881	5,967	14.25	358,375	45,801	12.78
Vegetables	4,648,517	79,787	1.72	94,334	6,333	6.71	4,320,041	211,833	4.90
Lettuce	37,164	5,453	14.67	235	97	41.54	*	*	*
Head cabbage	244,192	16,205	6.64	2,120	455	21.46	152,082	46,472	30.56
Ethiopian cabbage	2,704,205	67,270	2.49	27,143	1,034	3.81	2,624,554	101,457	3.87
Tomatoes	137,775	13,451	9.76	2,919	1,018	34.88	361,549	151,386	41.87
Green peppers	794,229	35,010	4.41	4,783	388	8.12	442,729	36,453	8.23
Red peppers	1,540,837	64,026	4.16	56,991	6,179	10.84	724,655	79,375	10.95
Swiss chard	79,744	7,827	9.82	142	18	12.31	6,801	1,030	15.14
Root crops	4,572,949	80,191	1.75	156,205	8,307	5.32	16,152,041	928,915	5.75
Beetroot	319,762	17,321	5.42	1,486	298	20.07	164,801	37,423	22.71
Carrot	138,208	12,180	8.81	1,741	736	42.27	178,954	89,338	49.92
Onion	951,709	43,329	4.55	17,980	3,253	18.09	2,296,776	436,360	19.00
Potatoes	1,171,582	58,719	5.01	51,698	6,040	11.68	5,097,155	631,477	12.39
Garlic	1,902,636	57,372	3.02	13,657	1,151	8.43	1,967,414	168,805	8.58
Taro / 'Godere'	801,418	33,013	4.12	24,169	1,650	6.83	1,926,110	129,939	6.75
Sweet potatoes	1,087,638	43,794	4.03	45,474	2,766	6.08	4,520,833	273,889	6.06
Fruit crops	2,127,310	59,621	2.80	46,464	7,474	16.09	2,634,023	541,936	20.57
Avocados	459,513	27,663	6.02	3,248	327	10.06	167,398	18,336	10.95
Bananas	1,355,438	47,827	3.53	28,695	6,264	21.83	1,818,293	464,482	25.54
Guavas	166,546	14,244	8.55	1,055	159	15.07	11,762	2,148	18.26
Lemons	143,442	10,504	7.32	851	126	14.75	10,087	711	7.05
Mangoes	414,574	27,613	6.66	5,814	1,178	20.26	301,715	79,180	26.24
Oranges	347,869	25,095	7.21	3,098	387	12.50	173,748	24,497	14.10
Papayas	404,021	23,333	5.78	2,714	424	15.61	150,878	21,332	14.14
Pineapples	*	*	*	*	*	*	143	63	44.29
Chat	1,836,225	54,816	2.99	120,304	7,376	6.13	975,207	56,449	5.79
Coffee	2,587,522	70,716	2.73	260,201	16,751	6.44	1,561,707	108,480	6.95
Hops	1,609,860	48,941	3.04	21,943	2,819	12.85	260,495	28,169	10.81
Sugar cane	789,522	33,582	4.25	18,601	1,833	9.85	1,274,281	136,866	10.74

Estimate of Holders, Area, Production, Standard Errors and Coefficient of Variations
For Crops 2004/2005 (1997 E.C)

Tigray

Crop	Holder	Standard Error	CV %	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	672,747	13,489	2.01	674,551	30,846	4.57	6,316,303	328,230	5.20
Cereals	667,243	13,536	2.03	566,228	27,615	4.88	5,348,822	290,797	5.44
Teff	395,681	16,796	4.24	137,360	13,765	10.02	881,765	76,818	8.71
Barley	370,776	15,219	4.10	95,453	8,297	8.69	777,795	62,616	8.05
Wheat	287,946	17,894	6.21	87,785	9,745	11.10	859,005	112,525	13.10
Maize	394,632	14,145	3.58	47,200	3,582	7.59	539,183	46,701	8.66
Sorghum	270,380	22,126	8.18	142,038	18,625	13.11	1,838,667	258,864	14.08
Finger millet	211,686	13,254	6.26	55,595	5,427	9.76	451,475	43,135	9.55
Oats / 'Aja'	3,880	1,910	49.21	*	*	*	*	*	*
Rice	*	*	*	*	*	*	-	-	-
Pulses	333,829	16,569	4.96	52,411	4,442	8.47	483,354	49,781	10.30
Horse beans	198,316	17,184	8.66	18,727	2,415	12.90	235,751	34,233	14.52
Field peas	72,476	8,493	11.72	7,782	1,467	18.85	77,245	16,561	21.44
Haricot beans	29,709	7,368	24.80	2,643	1,086	41.11	11,750	4,141	35.25
Chick-peas	44,443	7,464	16.79	10,498	2,598	24.75	77,701	22,886	29.45
Lentils	47,553	6,932	14.58	5,979	1,134	18.96	40,122	8,268	20.61
Vetch	31,440	6,338	20.16	6,062	1,371	22.61	38,109	9,050	23.75
Soya beans	1,236	506	40.94	75	35	46.38	-	-	-
Fenugreek	23,862	3,969	16.63	626	222	35.46	2,676	788	29.44
Gibto	**	*	*	*	*	*	-	-	-
Oilseeds	206,838	11,590	5.60	55,913	6,849	12.25	484,127	88,015	18.18
Neug	54,254	6,998	12.90	9,266	1,841	19.86	65,558	16,218	24.74
Linseed	98,488	7,545	7.66	9,759	1,233	12.63	43,017	6,324	14.70
Groundnuts	1,068	442	41.37	38	17	45.00	-	-	-
Safflower	2,161	887	41.06	*	**	*	*	*	*
Sesame	76,345	9,802	12.84	36,773	6,982	18.99	375,457	89,334	23.79
Rape seed	3,451	1,140	33.03	29	12	41.73	-	-	-
Vegetables	189,253	12,693	6.71	2,051	221	10.77	93,489	18,612	19.91
Lettuce	8,598	1,880	21.87	14	4	28.19	956	326	34.10
Head cabbage	9,906	2,218	22.39	66	22	32.80	2,425	1,157	47.68
Ethiopian cabbage	3,774	859	22.76	18	7	37.01	*	*	*
Tomatoes	22,987	3,330	14.49	352	112	31.80	49,076	16,695	34.02
Green peppers	45,513	6,408	14.08	313	74	23.73	26,032	6,068	23.31
Red peppers	120,594	12,003	9.95	1,268	169	13.36	12,961	1,641	12.66
Swiss chard	10,510	1,838	17.49	20	5	25.37	1,996	615	30.81
Root crops	118,771	13,015	10.96	2,502	455	18.18	291,727	56,361	19.32
Beetroot	3,031	973	32.11	*	*	*	-	-	-
Carrot	5,507	2,077	37.71	*	*	*	*	*	*
Onion	56,409	7,494	13.28	1,165	319	27.36	124,208	37,835	30.46
Potatoes	34,256	6,478	18.91	461	168	36.41	45,906	17,479	38.08
Garlic	57,827	9,238	15.98	766	179	23.30	110,836	26,298	23.73
Taro / 'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	1,593	733	46.04	*	*	*	-	-	-
Fruit crops	26,005	3,787	14.56	106	25	23.77	1,158	390	33.70
Avocados	*	*	*	*	*	*	-	-	-
Bananas	1,976	810	40.98	9	4	48.81	*	*	*
Guavas	6,295	1,620	25.74	25	10	39.36	-	-	-
Lemons	10,285	1,879	18.27	32	11	34.97	1,019	365	35.86
Mangoes	*	*	*	**	*	*	-	-	-
Oranges	5,385	1,184	21.98	21	10	44.67	-	-	-
Papayas	10,814	2,624	24.27	18	5	27.32	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Chat	*	*	*	*	*	*	-	-	-
Coffee	4,604	1,123	24.39	26	9	35.45	-	-	-
Hops	114,913	12,915	11.24	1,544	548	35.51	62,920	21,481	34.14
Sugar cane	*	*	*	*	*	*	-	-	-

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops 2004/2005 (1997 E.C)

Afar

Crop	Holder	Standard Error	CV %	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	12,296	1,402	11.40	12,311	1,547	12.56	167,503	15,806	9.44
Cereals	11,324	1,364	12.05	10,420	1,253	12.03	150,536	13,685	9.09
Teff	3,917	1,054	26.91	1,729	472	27.29	8,194	2,211	26.98
Barley	591	285	48.13	59	26	43.55	203	96	47.06
Wheat	*	*	*	*	*	*	*	*	*
Maize	9,713	996	10.26	6,863	722	10.53	131,311	12,511	9.53
Sorghum	3,896	1,045	26.83	1,725	467	27.06	10,779	3,102	28.78
Finger millet	*	*	*	*	**	*	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	2,791	749	26.85	434	147	33.83	1,431	582	40.65
Horse beans	*	***	*	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
Haricot beans	2,623	727	27.72	339	119	35.23	980	412	41.99
Chick-peas	419	146	34.78	92	42	45.29	450	196	43.63
Lentils	*	*	*	*	*	*	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	*	*	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oilseeds	3,733	921	24.68	1,457	590	40.53	**	*	*
Neug	241	111	45.91	*	**	*	*	*	*
Linseed	*	*	*	*	*	*	-	-	-
Groundnuts	-	-	-	-	-	-	-	-	-
Safflower	1,525	529	34.72	127	55	43.16	*	*	*
Sesame	3,323	849	25.53	1,324	582	43.93	*	*	*
Rape seed	-	-	-	-	-	-	-	-	-
Vegetables	1,568	456	29.07	38	13	35.49	244	89	36.58
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Ethiopian cabbage	145	52	35.97	0	0	44.01	-	-	-
Tomatoes	*	*	*	*	*	*	-	-	-
Green peppers	543	214	39.50	5	2	43.44	-	-	-
Red peppers	938	345	36.81	13	4	34.11	244	89	36.58
Swiss chard	-	-	-	-	-	-	-	-	-
Root crops	1,038	332	32.03	*	*	*	*	*	*
Beetroot	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	990	315	31.83	*	*	*	*	*	*
Potatoes	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro / 'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	*	*	*	*	*	*	-	-	-
Fruit crops	1,046	384	36.76	*	*	*	-	-	-
Avocados	-	-	-	-	-	-	-	-	-
Bananas	*	*	*	*	*	*	-	-	-
Guavas	-	-	-	-	-	-	-	-	-
Lemons	313	148	47.27	*	*	*	-	-	-
Mangoes	-	-	-	-	-	-	-	-	-
Oranges	*	*	*	*	*	*	-	-	-
Papayas	440	200	45.46	1	1	49.11	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Chat	*	*	*	**	*	*	-	-	-
Coffee	**	*	*	*	*	*	-	-	-
Hops	325	140	43.11	6	3	46.34	-	-	-
Sugar cane	*	*	*	*	*	*	-	-	-

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops 2004/2005 (1997 E.C)

Amhara

Crop	Holder	Standard Error	CV %	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	2,979,763	20,450	0.69	3,374,253	68,608	2.03	37,623,470	1,114,614	2.96
Cereals	2,936,690	21,026	0.72	2,477,598	52,424	2.12	30,055,062	1,030,502	3.43
Teff	1,839,987	51,624	2.81	852,307	38,259	4.49	8,136,514	418,740	5.15
Barley	1,475,667	51,225	3.47	375,912	26,316	7.00	3,989,652	360,129	9.03
Wheat	1,252,127	52,581	4.20	392,722	27,798	7.08	5,693,971	550,715	9.67
Maize	1,780,595	55,248	3.10	285,242	14,883	5.22	4,971,816	422,470	8.50
Sorghum	895,059	52,595	5.88	411,949	29,737	7.22	5,665,532	549,148	9.69
Finger millet	428,306	34,681	8.10	148,002	14,958	10.11	1,494,440	184,345	12.34
Oats / 'Aja'	91,850	12,633	13.75	8,496	1,879	22.12	103,136	22,096	21.42
Rice	12,701	5,851	46.06	*	*	*	-	-	-
Pulses	2,013,532	44,301	2.20	618,201	26,189	4.24	6,132,113	299,954	4.89
Horse beans	1,395,656	49,505	3.55	223,218	12,995	5.82	2,709,289	188,578	6.96
Field peas	744,416	37,259	5.01	114,509	8,259	7.21	969,259	82,214	8.48
Haricot beans	318,883	30,800	9.66	47,389	8,284	17.48	307,568	61,309	19.93
Chick-peas	403,177	32,803	8.14	101,699	10,292	10.12	987,954	110,838	11.22
Lentils	359,028	24,563	6.84	51,632	5,681	11.00	369,483	58,644	15.87
Vetch	289,012	29,219	10.11	62,400	8,226	13.18	693,207	96,915	13.98
Soya beans	3,600	1,616	44.90	*	*	*	*	*	*
Fenugreek	167,879	14,926	8.89	6,943	1,298	18.69	51,826	10,874	20.98
Gibto	66,246	11,383	17.18	10,253	2,393	23.34	43,018	10,680	24.83
Oilseeds	1,327,748	39,979	3.01	278,454	20,218	7.26	1,436,295	133,738	9.31
Neug	597,587	36,068	6.04	165,125	15,343	9.29	727,690	86,146	11.84
Linseed	449,087	24,002	5.34	43,749	4,449	10.17	139,222	16,122	11.58
Groundnuts	*	*	*	*	*	*	*	*	*
Safflower	130,372	18,402	14.12	7,515	1,202	15.99	62,963	10,573	16.79
Sesame	146,847	24,485	16.67	36,728	11,514	31.35	285,346	94,834	33.23
Rape seed	479,050	32,036	6.69	24,101	2,859	11.86	209,178	29,077	13.90
Vegetables	1,057,360	42,846	4.05	22,545	3,479	15.43	397,338	45,233	11.38
Lettuce	6,942	1,775	25.56	*	*	*	-	-	-
Head cabbage	32,607	5,879	18.03	183	58	31.76	*	*	*
Ethiopian cabbage	167,665	20,746	12.37	799	182	22.84	71,336	17,316	24.27
Tomatoes	42,802	7,427	17.35	290	120	41.47	*	*	*
Green peppers	162,658	17,000	10.45	772	109	14.13	75,204	10,788	14.34
Red peppers	731,160	44,246	6.05	20,362	3,485	17.11	235,813	41,223	17.48
Swiss chard	19,087	4,058	21.26	32	9	29.50	*	*	*
Root crops	1,315,801	45,243	3.44	29,704	3,321	11.18	3,158,744	343,732	10.88
Beetroot	34,495	5,547	16.08	121	56	46.47	*	*	*
Carrot	24,815	4,424	17.83	166	66	39.46	*	*	*
Onion	223,409	20,207	9.04	4,514	1,119	24.79	554,096	145,314	26.23
Potatoes	417,526	36,602	8.77	18,362	2,838	15.46	1,725,403	261,238	15.14
Garlic	1,004,944	40,549	4.03	5,988	599	10.01	849,246	85,839	10.11
Taro / 'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	23,035	7,553	32.79	*	*	*	2,636	1,230	46.66
Fruit crops	181,010	19,236	10.63	1,772	343	19.36	12,423	3,130	25.19
Avocados	5,904	1,968	33.33	26	11	42.61	-	-	-
Bananas	48,636	8,908	18.32	422	99	23.39	2,223	540	24.29
Guavas	23,953	5,145	21.48	109	29	26.51	523	152	29.12
Lemons	51,033	7,105	13.92	300	105	35.07	*	*	*
Mangoes	13,940	4,635	33.25	*	**	**	-	-	-
Oranges	59,135	11,160	18.87	505	137	27.09	6,998	2,458	35.13
Papayas	51,520	10,029	19.47	290	104	35.85	2,128	949	44.59
Pineapples	-	-	-	-	-	-	-	-	-
Chat	117,251	18,037	15.38	2,676	877	32.77	12,916	6,282	48.64
Coffee	221,678	25,018	11.29	4,442	723	16.28	7,304	1,249	17.10
Hops	835,186	36,980	4.43	14,271	2,671	18.72	66,837	9,434	14.12
Sugar cane	55,751	9,684	17.37	820	268	32.66	2,002	593	29.62

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops 2004/2005 (1997 E.C)

Oromia

Crop	Holder	Standard Error	CV %	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	4,331,540	45,438	1.05	4,574,889	132,110	2.89	62,321,656	2,190,763	3.52
Cereals	4,254,141	44,780	1.05	3,649,549	109,586	3.00	53,974,051	2,011,584	3.73
Teff	1,822,436	63,161	3.47	918,461	47,287	5.15	9,450,873	545,508	5.77
Barley	1,427,362	63,564	4.45	532,141	60,881	11.44	7,473,482	1,059,823	14.18
Wheat	1,722,661	69,198	4.02	765,528	65,373	8.54	13,028,288	1,249,697	9.59
Maize	3,089,557	63,739	2.06	791,686	29,486	3.72	14,526,478	659,802	4.54
Sorghum	1,782,165	53,597	3.01	522,499	29,650	5.67	7,948,266	478,749	6.02
Finger millet	387,650	29,556	7.62	84,329	7,668	9.09	1,093,027	115,541	10.57
Oats / 'Aja'	211,044	28,557	13.53	34,807	8,964	25.75	453,549	137,756	30.37
Rice	2,648	1,056	39.88	*	*	*	*	*	*
Pulses	2,382,958	55,963	2.35	495,572	23,166	4.67	5,333,287	302,111	5.66
Horse beans	1,122,767	48,792	4.35	160,342	10,484	6.54	1,992,877	150,640	7.56
Field peas	451,576	31,535	6.98	86,828	8,314	9.57	870,634	97,770	11.23
Haricot beans	1,164,403	45,866	3.94	129,591	11,053	8.53	1,278,394	128,582	10.06
Chick-peas	173,351	19,046	10.99	49,571	7,926	15.99	502,586	80,985	16.11
Lentils	199,466	18,896	9.47	17,201	2,398	13.94	127,644	23,049	18.06
Vetch	161,012	20,529	12.75	42,496	7,655	18.01	499,865	106,188	21.24
Soya beans	15,436	3,773	24.44	1,520	659	43.34	*	*	*
Fenugreek	250,053	22,569	9.03	7,925	1,093	13.79	58,276	11,530	19.79
Gibto	*	*	*	*	*	*	-	-	-
Oilseeds	1,402,392	55,934	3.99	429,768	29,824	6.94	3,014,317	241,410	8.01
Neug	480,457	32,713	6.81	163,507	15,779	9.65	990,473	119,687	12.08
Linseed	642,358	45,018	7.01	192,424	23,521	12.22	1,317,340	171,829	13.04
Groundnuts	108,964	23,235	21.32	17,998	5,923	32.91	212,776	72,960	34.29
Safflower	24,406	4,780	19.59	1,407	651	46.26	578	259	44.72
Sesame	165,597	23,250	14.04	37,882	7,636	20.16	347,828	91,141	26.20
Rape seed	287,847	22,592	7.85	16,550	5,232	31.61	145,323	35,373	24.34
Vegetables	1,887,121	57,550	3.05	40,578	4,837	11.92	1,933,919	186,831	9.66
Lettuce	16,042	4,481	27.93	103	44	42.88	*	*	*
Head cabbage	143,978	13,218	9.18	1,468	412	28.06	125,672	45,973	36.58
Ethiopian cabbage	1,141,465	55,059	4.82	10,837	782	7.21	986,291	75,034	7.61
Tomatoes	46,800	10,025	21.42	*	*	*	*	*	*
Green peppers	474,701	28,540	6.01	2,922	319	10.93	276,813	31,098	11.23
Red peppers	515,884	40,707	7.89	23,338	4,737	20.30	280,797	60,354	21.49
Swiss chard	25,326	5,179	20.45	47	11	23.77	1,374	379	27.57
Root crops	1,762,922	55,483	3.15	62,864	7,030	11.18	7,023,975	817,597	11.64
Beetroot	200,564	14,978	7.47	1,118	288	25.76	131,392	36,595	27.85
Carrot	72,068	10,434	14.48	*	*	*	*	*	*
Onion	476,563	34,344	7.21	10,186	3,015	29.60	1,375,724	406,755	29.57
Potatoes	376,230	38,041	10.11	23,222	5,186	22.33	2,518,684	562,572	22.34
Garlic	721,699	37,775	5.23	6,020	947	15.73	884,261	139,674	15.80
Taro / 'Godere'	252,027	22,077	8.76	6,355	1,182	18.61	494,001	91,810	18.59
Sweet potatoes	422,201	27,320	6.47	14,713	1,557	10.58	1,471,638	159,549	10.84
Fruit crops	882,898	40,771	4.62	16,011	1,750	10.93	756,677	73,261	9.68
Avocados	71,972	12,414	17.25	640	159	24.85	13,700	4,138	30.20
Bananas	588,613	30,717	5.22	8,790	821	9.34	460,717	45,588	9.90
Guavas	92,189	12,276	13.32	727	154	21.14	8,924	2,107	23.61
Lemons	34,864	4,683	13.43	156	28	17.85	2,370	468	19.75
Mangoes	233,777	22,225	9.51	2,885	738	25.58	105,161	18,653	17.74
Oranges	158,316	17,707	11.18	1,418	266	18.76	96,916	22,127	22.83
Papayas	164,077	17,311	10.55	1,381	398	28.84	68,809	19,803	28.78
Pineapples	5,449	1,739	31.91	13	5	37.78	80	38	47.37
Chat	1,097,809	35,751	3.26	83,463	6,623	7.94	580,212	43,885	7.56
Coffee	1,085,675	47,750	4.40	175,829	15,781	8.98	1,068,976	103,238	9.66
Hops	459,807	25,310	5.50	4,239	421	9.93	103,953	11,488	11.05
Sugar cane	234,058	18,088	7.73	6,643	1,145	17.24	495,340	94,582	19.09

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops 2004/2005 (1997 E.C)

Somale

Crop	Holder	Standard Error	CV %	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	84,777	3,970	4.68	72,130	6,085	8.44	446,486	56,472	12.65
Cereals	84,490	3,952	4.68	69,900	6,042	8.64	437,931	55,624	12.70
Teff	*	*	*	*	*	*	-	-	-
Barley	23,602	4,080	17.29	5,706	1,288	22.56	38,992	8,907	22.84
Wheat	40,498	5,311	13.11	16,030	3,132	19.54	153,023	33,605	21.96
Maize	70,854	3,654	5.16	25,660	3,676	14.32	103,611	14,944	14.42
Sorghum	51,993	4,039	7.77	21,994	2,527	11.49	138,389	20,196	14.59
Finger millet	-	-	-	-	-	-	-	-	-
Oats / 'Aja'	5,548	1,266	22.82	490	134	27.33	3,916	1,392	35.54
Rice	-	-	-	-	-	-	-	-	-
Pulses	21,930	3,480	15.87	1,926	373	19.35	8,163	2,358	28.89
Horse beans	*	*	*	*	*	*	-	-	-
Field peas	1,879	746	39.73	100	46	46.59	1,012	501	49.50
Haricot beans	16,292	3,018	18.52	1,154	233	20.24	6,058	1,981	32.71
Chick-peas	2,554	1,038	40.62	*	*	*	*	*	*
Lentils	2,669	1,029	38.57	170	78	45.55	538	223	41.43
Vetch	-	-	-	-	-	-	-	-	-
Soya beans	*	*	*	*	*	*	-	-	-
Fenugreek	2,323	687	29.55	130	61	46.93	226	109	48.22
Gibto	*	*	*	*	*	*	-	-	-
Oilseeds	4,926	1,228	24.94	304	104	34.19	392	166	42.39
Neug	-	-	-	-	-	-	-	-	-
Linseed	4,386	1,232	28.10	265	103	38.78	392	166	42.46
Groundnuts	*	*	*	*	*	*	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	236	-	-	*	*	*	1	-	-
Rape seed	*	*	*	*	*	*	-	-	-
Vegetables	2,591	719	27.74	54	14	26.82	1,118	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Ethiopian cabbage	*	*	*	*	*	*	-	-	-
Tomatoes	2,160	688	31.83	45	15	33.34	1,118	-	-
Green peppers	349	109	31.36	6	-	-	-	-	-
Red peppers	27	-	-	0	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root crops	13,850	3,408	24.60	1,156	358	30.93	83,923	31,996	38.13
Beetroot	*	*	*	0	0	36.00	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	4,092	1,543	37.69	*	*	*	*	*	*
Potatoes	921	353	38.26	30	14	45.33	3,195	1,448	45.33
Garlic	6,623	2,314	34.94	357	157	43.94	59,230	26,026	43.94
Taro / 'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	6,722	2,497	37.14	608	281	46.25	896	-	-
Fruit crops	5,297	346	6.54	331	-	-	25,573	-	-
Avocados	9	-	-	0	-	-	-	-	-
Bananas	1,100	75	6.81	85	6	7.23	5,909	-	-
Guavas	1,199	384	32.02	9	4	42.12	*	*	*
Lemons	1,888	-	-	78	-	-	3,004	-	-
Mangoes	2,072	361	17.41	57	10	16.91	-	-	-
Oranges	1,173	-	-	88	-	-	16,533	-	-
Papayas	1,534	358	23.33	14	6	42.30	109	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Chat	34,763	5,222	15.02	7,208	1,413	19.61	92,733	18,173	19.60
Coffee	551	188	34.08	*	*	*	64	-	-
Hops	-	-	-	-	-	-	-	-	-
Sugar cane	*	*	*	3	0	16.26	172	-	-

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops 2004/2005 (1997 E.C)

Benishangul - Gumuz

Crop	Holder	Standard Error	CV %	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	132,632	4,438	3.35	166,285	10,489	6.31	1,698,970	133,132	7.84
Cereals	130,975	4,319	3.30	113,461	6,776	5.97	1,390,374	108,524	7.81
Teff	24,559	3,923	15.97	12,797	2,411	18.84	116,926	29,448	25.19
Barley	4,480	1,623	36.22	975	389	39.88	8,060	3,242	40.22
Wheat	*	*	*	*	*	*	*	*	*
Maize	115,284	5,010	4.35	27,412	2,425	8.85	500,188	53,918	10.78
Sorghum	92,809	4,966	5.35	49,862	3,846	7.71	511,593	45,783	8.95
Finger millet	36,064	4,812	13.34	20,230	3,953	19.54	231,653	45,943	19.83
Oats / 'Aja'	472	210	44.45	*	*	*	*	*	*
Rice	*	*	*	*	*	*	*	*	*
Pulses	67,212	4,693	6.98	7,233	807	11.15	53,031	8,446	15.93
Horse beans	5,363	1,882	35.08	452	166	36.78	3,131	1,162	37.11
Field peas	3,054	1,064	34.83	439	193	43.92	2,796	1,280	45.78
Haricot beans	52,262	5,315	10.17	4,937	776	15.71	39,797	8,551	21.49
Chick-peas	3,828	1,167	30.49	463	209	45.21	2,155	1,073	49.81
Lentils	1,224	586	47.88	82	40	48.76	156	76	48.76
Vetch	*	*	*	*	*	*	-	-	-
Soya beans	8,166	2,522	30.89	805	264	32.80	4,814	1,670	34.68
Fenugreek	*	*	*	*	*	*	-	-	-
Gibto	*	*	*	*	*	*	*	*	*
Oilseeds	96,597	4,761	4.93	45,590	4,741	10.40	255,565	32,142	12.58
Neug	36,515	4,237	11.60	16,647	3,761	22.59	66,895	16,543	24.73
Linseed	5,010	1,065	21.26	312	96	30.78	697	256	36.76
Groundnuts	24,198	3,352	13.85	5,001	1,164	23.27	55,787	14,118	25.31
Safflower	2,493	962	38.60	151	61	40.27	*	*	*
Sesame	67,930	5,700	8.39	23,291	2,546	10.93	130,382	17,714	13.59
Rape seed	5,436	1,266	23.29	189	49	25.96	693	195	28.12
Vegetables	34,822	4,094	11.76	961	236	24.57	22,667	4,706	20.76
Lettuce	*	*	*	*	*	*	-	-	-
Head cabbage	711	251	35.28	2	1	44.64	107	47	43.96
Ethiopian cabbage	1,996	631	31.62	31	15	47.32	*	*	*
Tomatoes	1,904	547	28.73	13	6	47.88	*	*	*
Green peppers	4,496	1,004	22.34	39	10	25.24	3,445	854	24.80
Red peppers	28,104	4,146	14.75	876	232	26.53	16,578	4,604	27.77
Swiss chard	*	*	*	*	*	*	-	-	-
Root crops	31,922	4,226	13.24	627	136	21.65	72,013	16,600	23.05
Beetroot	*	*	*	*	*	*	*	*	*
Carrot	404	159	39.41	*	*	*	*	*	*
Onion	5,788	1,824	31.52	50	22	43.97	6,761	2,968	43.90
Potatoes	3,295	1,000	30.36	121	51	42.32	12,238	5,381	43.97
Garlic	10,797	3,172	29.38	156	73	46.81	22,380	10,513	46.97
Taro / 'Godere'	756	332	43.92	*	*	*	*	*	*
Sweet potatoes	18,263	2,425	13.28	294	68	23.03	30,350	7,010	23.10
Fruit crops	44,203	3,694	8.36	1,274	190	14.88	86,638	12,919	14.91
Avocados	317	140	44.01	*	*	*	-	-	-
Bananas	20,120	2,713	13.49	462	95	20.60	27,538	5,759	20.91
Guavas	2,608	815	31.24	13	6	45.96	145	71	48.55
Lemons	4,833	981	20.29	47	14	29.25	520	243	46.73
Mangoes	29,252	3,098	10.59	629	124	19.68	49,780	9,977	20.04
Oranges	4,688	1,360	29.01	*	*	*	1,609	500	31.09
Papayas	8,987	1,528	17.00	55	14	25.69	7,047	2,221	31.51
Pineapples	-	-	-	-	-	-	-	-	-
Chat	5,017	1,656	33.01	72	32	44.28	723	330	45.60
Coffee	15,525	3,616	23.29	*	*	*	*	*	*
Hops	10,198	2,604	25.54	124	43	34.39	*	*	*
Sugar cane	1,201	421	35.10	31	12	39.56	561	227	40.53

Estimate of Holders, Area, Production, Standard Errors and Coefficient of Variations
For Crops 2004/2005 (1997 E.C)

S.N.N.P.R.

Crop	Holder	Standard Error	CV %	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	2,196,163	28,324	1.29	913,209	30,504	3.34	10,271,639	399,990	3.89
Cereals	2,027,270	31,211	1.54	731,172	25,926	3.55	8,775,198	367,103	4.18
Teff	767,677	30,530	3.98	210,055	14,936	7.11	1,629,058	130,388	8.00
Barley	597,800	33,112	5.54	84,936	7,696	9.06	989,347	103,707	10.48
Wheat	626,620	32,118	5.13	131,485	9,941	7.56	1,962,844	160,910	8.20
Maize	1,199,744	40,876	3.41	207,410	13,334	6.43	3,155,711	249,046	7.89
Sorghum	549,905	25,585	4.65	92,009	6,197	6.74	975,934	67,128	6.88
Finger millet	50,632	8,315	16.42	4,767	1,425	29.89	57,442	20,819	36.24
Oats / 'Aja'	14,731	3,856	26.18	506	152	30.02	4,862	1,866	38.37
Rice	*	*	*	*	*	*	-	-	-
Pulses	1,337,131	38,373	2.87	170,831	9,704	5.68	1,447,619	92,772	6.41
Horse beans	634,843	30,703	4.84	60,260	4,768	7.91	576,751	49,052	8.50
Field peas	330,280	22,698	6.87	44,645	3,860	8.65	361,559	37,343	10.33
Haricot beans	762,558	40,861	5.36	59,188	6,547	11.06	466,894	58,163	12.46
Chick-peas	36,116	5,738	15.89	3,925	732	18.66	28,006	6,247	22.31
Lentils	32,511	4,585	14.10	1,341	250	18.64	5,138	951	18.51
Vetch	5,385	2,481	46.08	*	*	*	*	*	*
Soya beans	5,322	1,466	27.55	48	17	36.24	-	-	-
Fenugreek	33,990	5,836	17.17	598	115	19.19	2,042	418	20.48
Gibto	*	*	*	*	*	*	*	*	*
Oilseeds	149,299	12,680	8.49	11,206	2,714	24.22	48,822	12,981	26.59
Neug	13,228	6,317	47.76	*	*	*	*	*	*
Linseed	68,207	6,773	9.93	4,181	1,202	28.74	17,970	5,097	28.36
Groundnuts	18,111	4,439	24.51	1,192	547	45.86	1,263	447	35.37
Safflower	14,643	2,523	17.23	467	113	24.23	4,882	1,584	32.43
Sesame	1,504	489	32.49	*	*	*	*	*	*
Rape seed	40,664	7,885	19.39	1,008	243	24.06	3,179	1,012	31.84
Vegetables	1,471,424	32,240	2.19	28,023	2,120	7.56	1,862,616	86,882	4.66
Lettuce	5,437	1,724	31.71	11	5	43.19	-	-	-
Head cabbage	56,788	6,952	12.24	396	183	46.25	17,065	5,666	33.20
Ethiopian cabbage	1,387,143	32,592	2.35	15,443	652	4.22	1,565,383	66,048	4.22
Tomatoes	18,789	3,630	19.32	*	*	*	*	*	*
Green peppers	105,443	8,947	8.48	723	177	24.43	61,235	14,417	23.54
Red peppers	144,065	17,976	12.48	11,134	1,877	16.86	178,264	30,572	17.15
Swiss chard	24,471	3,818	15.60	41	8	19.51	2,694	590	21.90
Root crops	1,320,880	33,252	2.52	58,710	2,852	4.86	5,468,011	265,446	4.85
Beetroot	80,990	6,628	8.18	232	52	22.55	20,289	3,153	15.54
Carrot	34,814	3,945	11.33	184	69	37.39	5,588	2,311	41.36
Onion	183,067	15,081	8.24	1,525	233	15.29	171,804	30,559	17.79
Potatoes	337,938	24,856	7.36	9,421	1,222	12.97	791,728	117,023	14.78
Garlic	98,535	10,937	11.10	362	80	22.22	41,461	11,769	28.39
Taro / 'Godere'	548,607	24,542	4.47	17,811	1,150	6.46	1,431,897	91,951	6.42
Sweet potatoes	612,239	33,189	5.42	29,175	2,247	7.70	3,005,245	222,497	7.40
Fruit crops	977,598	38,643	3.95	26,685	7,256	27.19	1,751,251	536,843	30.65
Avocados	381,137	24,642	6.47	2,571	285	11.08	153,698	17,863	11.62
Bananas	693,210	35,446	5.11	18,864	6,208	32.91	1,321,587	462,207	34.97
Guavas	38,564	4,705	12.20	142	21	15.00	2,151	379	17.64
Lemons	39,634	5,793	14.62	231	62	26.97	2,624	746	28.43
Mangoes	130,743	15,384	11.77	1,987	907	45.64	*	*	*
Oranges	119,042	13,733	11.54	1,009	245	24.33	51,692	11,308	21.88
Papayas	162,873	11,590	7.12	906	98	10.87	72,785	7,553	10.38
Pineapples	*	*	*	*	*	*	*	*	*
Chat	548,378	36,346	6.63	23,073	2,719	11.78	252,259	29,410	11.66
Coffee	1,254,428	45,601	3.64	77,755	5,439	6.99	470,137	31,925	6.79
Hops	188,695	14,613	7.74	1,753	577	32.90	26,198	10,534	40.21
Sugar cane	497,199	26,579	5.35	11,091	1,406	12.68	776,205	98,925	12.74

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops 2004/2005 (1997 E.C)

Harari

Crop	Holder	Standard Error	CV %	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	14,607	487	3.33	7,594	727	9.58	45,689	4,220	9.24
Cereals	14,580	487	3.34	5,891	593	10.06	36,874	3,802	10.31
Teff	*	*	*	*	*	*	-	-	-
Barley	835	308	36.88	36	17	47.10	184	87	47.10
Wheat	821	398	48.50	*	*	*	*	*	*
Maize	11,533	574	4.98	1,149	127	11.05	10,148	1,171	11.54
Sorghum	13,777	545	3.96	4,645	554	11.92	26,055	3,194	12.26
Finger millet	-	-	-	-	-	-	-	-	-
Oats / 'Aja'	*	*	*	*	*	*	*	*	*
Rice	*	*	*	*	*	*	-	-	-
Pulses	1,110	283	25.52	43	13	30.46	*	*	*
Horse beans	*	**	*	*	*	*	-	-	-
Field peas	*	*	*	*	*	*	*	*	*
Haricot beans	842	270	32.08	31	12	38.70	-	-	-
Chick-peas	*	*	*	*	*	*	*	*	*
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	*	*	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oilseeds	7,658	1,013	13.23	1,660	311	18.76	8,608	1,589	18.46
Neug	-	-	-	-	-	-	-	-	-
Linseed	*	*	*	*	*	*	-	-	-
Groundnuts	7,504	1,001	13.34	1,550	285	18.38	8,522	1,572	18.44
Safflower	-	-	-	-	-	-	-	-	-
Sesame	1,496	533	35.64	107	49	46.08	86	40	46.08
Rape seed	*	*	*	*	*	*	-	-	-
Vegetables	152	59	38.72	*	*	*	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	*	*	*	*	*	*	-	-	-
Ethiopian cabbage	*	*	*	*	*	*	-	-	-
Tomatoes	*	*	*	*	*	*	-	-	-
Green peppers	*	*	*	*	*	*	-	-	-
Red peppers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root crops	2,714	483	17.80	141	46	32.54	6,485	1,867	28.79
Beetroot	*	*	*	**	*	*	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	*	*	*	*	*	*	-	-	-
Potatoes	*	*	*	*	*	*	-	-	-
Garlic	*	*	*	*	*	*	-	-	-
Taro / 'Godere'	*	*	*	*	*	*	-	-	-
Sweet potatoes	1,964	366	18.63	85	25	28.79	6,485	1,867	28.79
Fruit crops	5,171	581	11.24	163	48	29.25	301	104	34.64
Avocados	*	*	*	*	*	*	-	-	-
Bananas	818	178	21.80	9	4	43.49	179	78	43.49
Guavas	1,032	240	23.27	*	*	*	-	-	-
Lemons	270	124	45.80	*	*	*	-	-	-
Mangoes	3,203	618	19.28	115	33	29.07	122	35	29.07
Oranges	*	*	*	*	*	*	-	-	-
Papayas	1,356	324	23.91	12	5	43.73	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Chat	12,072	852	7.06	2,254	315	13.96	36,360	5,077	13.96
Coffee	1,391	421	30.30	32	12	37.68	145	55	37.68
Hops	*	*	*	*	*	*	-	-	-
Sugar cane	*	*	*	*	*	*	-	-	-

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops 2004/2005 (1997 E.C)

Addis Abeba

Crop	Holder	Standard Error	CV %	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	4,219	100	2.37	8,211	353	4.30	126,179	5,586	4.43
Cereals	3,922	103	2.62	6,093	271	4.44	91,776	4,209	4.59
Teff	3,178	93	2.93	2,821	140	4.97	31,884	1,632	5.12
Barley	445	44	9.79	190	25	13.19	2,428	328	13.52
Wheat	3,178	97	3.05	3,052	147	4.80	57,104	2,817	4.93
Maize	505	52	10.35	13	3	21.01	104	31	30.05
Sorghum	40	17	43.33	**	*	*	*	*	*
Finger millet	-	-	-	-	-	-	-	-	-
Oats / 'Aja'	100	25	25.12	9	3	33.92	189	64	33.88
Rice	-	-	-	-	-	-	-	-	-
Pulses	3,252	91	2.80	2,106	107	5.08	34,398	1,758	5.11
Horse beans	1,327	71	5.37	161	14	8.69	2,040	194	9.52
Field peas	441	43	9.84	55	7	13.05	644	88	13.62
Haricot beans	87	24	27.97	1	0	33.68	-	-	-
Chick-peas	2,129	87	4.08	963	64	6.62	16,768	1,104	6.58
Lentils	958	72	7.50	207	22	10.50	2,342	254	10.86
Vetch	2,281	84	3.70	629	36	5.79	11,879	712	5.99
Soya beans	*	*	*	*	*	*	-	-	-
Fenugreek	785	66	8.41	90	12	13.12	724	90	12.48
Gibto	-	-	-	-	-	-	-	-	-
Oilseeds	363	48	13.17	12	3	29.17	5	2	33.14
Neug	-	-	-	-	-	-	-	-	-
Linseed	78	23	28.86	9	3	35.50	2	1	47.44
Groundnuts	-	-	-	-	-	-	-	-	-
Safflower	92	25	27.70	0	0	41.34	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rape seed	224	38	16.86	2	1	29.78	2	1	46.32
Vegetables	1,859	82	4.43	19	3	16.76	-	-	-
Lettuce	117	27	22.69	0	0	40.17	-	-	-
Head cabbage	142	32	22.40	4	1	34.81	-	-	-
Ethiopian cabbage	1,651	79	4.79	11	2	15.69	-	-	-
Tomatoes	50	17	33.51	*	*	*	-	-	-
Green peppers	330	42	12.74	0	0	22.63	-	-	-
Red peppers	*	*	*	*	*	*	-	-	-
Swiss chard	191	32	16.52	*	*	*	-	-	-
Root crops	2,537	92	3.61	69	10	13.70	-	-	-
Beetroot	365	47	12.90	7	2	26.07	-	-	-
Carrot	598	58	9.73	49	8	16.53	-	-	-
Onion	155	31	20.27	*	*	*	-	-	-
Potatoes	149	32	21.46	5	3	48.65	-	-	-
Garlic	2,183	89	4.05	7	1	12.62	-	-	-
Taro / 'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Fruit crops	*	*	*	*	*	*	-	-	-
Avocados	*	*	*	*	*	*	-	-	-
Bananas	-	-	-	-	-	-	-	-	-
Guavas	**	*	**	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-	-
Mangoes	*	*	*	*	*	*	-	-	-
Oranges	-	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Chat	70	19	26.42	0	0	47.08	4	2	47.08
Coffee	23	11	46.76	*	*	*	-	-	-
Hops	710	62	8.74	6	1	14.57	143	21	14.57
Sugar cane	*	*	*	*	*	*	-	-	-

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops 2004/2005 (1997 E.C)

Dire Dawa

Crop	Hoder	Standard Error	CV %	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	14,973	964	6.44	7,638	632	8.27	50,206	4,041	8.05
Cereals	14,973	964	6.44	7,211	598	8.29	47,729	3,850	8.07
Teff	*	*	*	*	*	*	-	-	-
Barley	*	*	*	*	*	*	*	*	*
Wheat	*	*	*	*	*	*	*	*	*
Maize	4,938	706	14.30	281	62	22.21	3,071	752	24.48
Sorghum	14,841	987	6.65	6,892	599	8.70	44,261	3,853	8.70
Finger millet	-	-	-	-	-	-	-	-	-
Oats / 'Aja'	*	*	*	*	*	*	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	5,939	867	14.60	359	74	20.63	2,190	453	20.67
Horse beans	*	*	*	*	*	*	-	-	-
Field peas	*	*	*	**	*	*	-	-	-
Haricot beans	5,591	882	15.78	325	75	23.10	2,030	459	22.60
Chick-peas	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	*	*	*	*	*	*
Vetch	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	351	283	*	*	*	*	*	*	*
Gibto	-	TRUE	-	-	-	-	-	-	-
Oilseeds	1,188	307	25.81	68	25	35.91	286	132	46.26
Neug	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Groundnuts	699	233	33.33	56	24	43.16	286	132	46.26
Safflower	-	-	-	-	-	-	-	-	-
Sesame	463	184	39.77	*	*	*	-	-	-
Rape seed	*	*	*	*	*	*	-	-	-
Vegetables	2,367	492	20.80	64	15	23.20	8,651	2,113	24.42
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	*	*	*	*	*	*	-	-	-
Ethiopian cabbage	*	*	*	*	*	*	-	-	-
Tomatoes	2,168	470	21.68	60	15	24.42	8,651	2,113	24.42
Green peppers	157	71	45.17	*	*	*	-	-	-
Red peppers	*	*	*	*	*	*	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root crops	2,515	594	23.63	108	46	42.32	3,581	976	27.25
Beetroot	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	1,181	410	34.69	*	*	*	-	-	-
Potatoes	*	*	*	*	*	*	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro / 'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	1,548	374	24.15	33	9	27.25	3,581	976	27.25
Fruit crops	4,065	650	16.00	69	18	25.44	-	-	-
Avocados	*	*	*	*	*	*	-	-	-
Bananas	475	151	31.81	4	2	46.64	-	-	-
Guavas	696	282	40.46	5	2	48.32	-	-	-
Lemons	*	*	*	**	*	*	-	-	-
Mangoes	1,105	316	28.62	19	8	40.77	-	-	-
Oranges	*	*	*	*	*	*	-	-	-
Papayas	2,420	577	23.83	36	12	32.99	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Chat	9,863	866	8.78	954	135	14.13	-	-	-
Coffee	3,550	823	23.19	99	26	26.36	358	94	26.37
Hops	-	-	-	-	-	-	-	-	-
Sugar cane	*	*	*	*	**	*	-	-	-

APPENDIX III

NUMBER OF EAs SAMPLED AND COVERED
NUMBER OF HOUSEHOLDS SAMPLED AND COVERED
NUMBER OF FIELDS MEASURED AND CROP-CUTTINGS PERFORMED

Appendix III. Number of Planned and Actually Covered Sampling Units (EAs & Households) of the 2004/5 (1997 E.C.) Annual Agricultural Sample Survey (Meher Season).

Region	Stratum	Enumeration Areas		Households	
	Zone/Sp.wereda	Planned	Covered	Planned	Covered
Tigray	North Western Tigray	32	32	800	800
	Central Tigray	36	36	900	900
	Eastern Tigray	32	32	800	800
	Southern Tigray	36	36	900	900
	Western Tigray	28	28	700	700
	Region Total	**164**	**164**	**4100**	**4100**
Afar	Zone One	28	28	700	694
	Zone Three	28	28	700	699
	Region Total	**56**	**56**	**1400**	**1393**
Amhara	North Gonder	40	40	1000	1000
	South Gonder	40	40	1000	999
	North Wello	40	40	1000	998
	South Wello	48	48	1200	1200
	North Shewa	40	40	1000	1000
	East Gojam	44	43	1100	1075
	West Gojam	44	44	1100	1100
	Wag Hemira	32	32	800	800
	Awi	36	36	900	899
	Oromia	32	32	800	800
	Region Total	**396**	**395**	**9900**	**9871**
Oromia	West Wellega	40	40	1000	1000
	East Wellega	36	36	900	900
	Illubabor	36	36	900	900
	Jimma	44	44	1100	1100
	West Shewa	36	36	900	900
	North Shewa	36	36	900	900
	East Shewa	40	40	1000	1000
	Arsi	44	44	1100	1100
	West Harerghe	36	36	900	900
	East Harerghe	44	44	1100	1099
	Bale	36	36	900	899
	Borena	36	36	900	900
	South West Shewa	36	36	900	900
	Guji	36	36	900	900
	Region Total	**536**	**536**	**13400**	**13398**

Appendix III (cont'd)

Region	Stratum	Enumeration Areas		Households	
	Zone/Sp.wereda	Planned	Covered	Planned	Covered
Somali	Shinile	24	24	600	591
	Jijiga	32	32	800	800
	Liben	28	28	700	679
	Region Total	**84**	**84**	**2100**	**2070**
Benishangul-	Metekel	28	27	700	664
Gumuz	Asosa	28	28	700	700
	Kemashi	28	28	700	700
	Region Total	**84**	**83**	**2100**	**2064**
SNNP	Guraghe	36	36	900	900
	Hadiya	32	32	800	800
	Kembata_Tambaro	32	32	800	800
	Sidama	44	44	1100	1100
	Gedeo	32	32	800	798
	Wolayita	36	36	900	900
	South Omo	32	32	800	799
	Shaka	28	28	700	700
	Keffa	32	32	800	800
	Gamo_Gofa	36	36	900	899
	Bench_Maji	32	32	800	800
	Yem Specia Wereda	24	24	600	600
	Amaro Special W.	24	24	600	600
	Burji Special Wereda	24	24	600	600
	Konso Special Wereda.	24	24	600	599
	Derashe Special Wereda.	24	24	600	600
	Dawro	32	32	800	800
	Basketo Special Wereda.	24	24	600	600
	Konta Special Wereda.	24	24	600	600
	Siltie	28	28	700	700
	Alaba Special Wereda.	24	24	600	600
	Region Total	**624**	**623**	**15600**	**15595**
Harari	**Harari**	24	24	600	599
Addis Ababa	**Addis Ababa**	24	24	600	600
Dire Dawa	**Dire Dawa**	24	24	600	597
Country Total		**2016**	**2014**	**50400**	**50287**

Appendix III (cont'd) Number of Parcels, Fields measured and Crop-cuttings performed by Region and Zone

Region	Zone	Number of Parcels	Number of fields	Number of Crop-cuttings
Tigray	N.W. Tigray	2,547	6,938	644
	Central Tigray	3,019	10,638	757
	Eastern Tigray	2,832	10,409	475
	Southern Tigray	3,989	8,536	660
	Western Tigray	1,963	5,514	360
	Region Total	14,350	42,035	2,896
Afar	Zone One	1,364	2,247	84
	Zone Three	1,188	3,178	291
	Regional Total	2,552	5,425	375
Amhara	North Gonder	4,610	10,470	792
	South Gonder	5,160	12,032	846
	North Wello	4,232	9,570	660
	South Wello	7,316	15,965	1,112
	North Shewa	5,442	17,060	1,070
	East Gojam	4,841	11,059	822
	West Gojam	5,106	14,111	770
	Wag Hemira	3,449	7,388	677
	Awi	3,528	10,842	513
	Oromia zone	2,379	9,965	453
	Regional Total	46,063	118,462	7,715
Oromia	West Wellega	4,961	16,063	988
	East Wellega	3,200	10,912	1,011
	Illubabor	2,836	12,081	703
	Jimma	3,808	18,249	825
	West Shewa	3,903	12,350	842
	North Shewa	5,317	11,053	690
	East Shewa	3,631	10,422	1,007
	Arsi	4,694	12,363	988
	West Harerghe	2,519	10,716	641
	East Harerghe	3,262	13,298	642
	Bale	2,961	9,071	660
	Borena	1,817	7,870	226
	South West Shewa	3,996	13,547	991
	Guji	1,805	8,037	407
	Region Total	48,710	166,032	10,621

Appendix III (cont'd) Number of Parcels, Fields measured and Crop-cuttings performed by Region and Zone

Region	Zone	Number of Parcels	Number of fields	Number of Crop-cuttings
Somali	Shinile	1,141	3,500	121
	Jijiga	2,057	6,721	467
	Liben	1,247	2,332	65
	Regional Total	4,445	12,553	653
Benish-Gumuz	Metekel	2,200	5,278	480
	Asosa	2,736	8,198	543
	Kemashi	2,012	5,968	394
	Regional Total	6,948	19,444	1,417
SNNP	Guraghe	1,832	14,889	482
	Hadiya	1,539	16,368	533
	Kembata_Tambaro	1,566	17,425	370
	Sidama	2,156	14,171	272
	Gedeo	2,060	9,826	181
	Wolayita	1,488	14,440	376
	South Omo	1,857	8,184	274
	Shaka	2,037	9,447	253
	Keffa	1,794	10,760	559
	Gamo_Gofa	2,656	12,538	512
	Bench_Maji	1,804	9,527	335
	Yem SpeciWereda	2,099	11,549	423
	Amaro Special W.	1,289	6,894	176
	Burji Spec.Wereda	1,959	8,693	399
	Konso S. Wereda.	1,905	5,555	257
	Derashe Wereda.	1,511	5,463	269
	Dawro	1,304	9,875	339
	Basketo Wereda.	1,413	12,762	208
	Konta Sp. Wereda.	856	8,353	249
	Siltie	2,001	13,686	667
	Alaba Sp. Wereda.	1,368	10,429	326
	Regional Total	36,494	230,834	7,460
Harari		1,947	6,455	215
Addis Ababa		2,647	7,183	407
Dire Dawa		1,959	5,050	166
Country	**Total**	166,115	613,473	31,925

APPENDIX IV

QUESTIONNAIRE

Ag.S.S. Form 9723

Central Statistical Authority
National Integrated Household Survey
Agricultural Sample Survey 2004/2005 (1997 E.C.)

Part I 0 Identification Particulars

4	5	6	7	8
Region	Zone	Wereda	Farmers' Association	Enumeration Area

Part II – List of Households, Agricultural Holders and order of selection

4	5	6		7		8	9	:
Household ID	Name of Household Head	Is there Agricultural Holder in The Household? Yes = 1 No = 2	code	If yes Holder ID Within the Household		Holder's Name	Agricultural Household ID	Selection Order

	Name	Signature	Date
Enumerator's			
Supervisor's			
Branch Office Head			

1.Total Number of Agricultural Households_____
2. Random Interval _____
3. Random Start _____

Part II – List of Households, Agricultural Holders and order of selection

4	5	6		7		8	9	:
Household ID	Name of Household Head	Is there Agricultural Holder in The Household? Yes = 1 No = 2	code	If yes Holder ID Within the Household		Holder's Name	Agricultural Household ID	Selection Order

	Name	Signature	Date
Enumerator's			
Supervisor's			
Branch Office Head			

1.Total Number of Agricultural Households_____

2. Random Interval _____

3. Random Start _____

Ag.S.S, Form 972l

Central Statistical Authority
National Integrated Household Survey
Agricultural Sample Survey 2004/2005 (1997 E.C.)

Part I 0 Identification Particulars

4	5	6	7	8
Region	Zone	Wereda	Farmers' Association	Enumeration Area

Part II – List of Selected Agricultural Households and Holders

4	5	6	7	8	9	:
Household ID	Name of Household Head	Holder ID	Name of Holder	Farm Type Crop = 1 Livestock = 2 Both = 3 (code)	Selection Order	Remarks

	Name	Signature	Date
Enumerator's			
Supervisor's			
Branch Office Head			

AgSS Form 97/3A

Agricultural Sample Survey of Ethiopia
List of Fields under Temporary Crops, Farm Management Practices & Area Measurement, Meher Season 2004/05 (1997 E.C)
Part I – Identification Particulars

4	5	6	7	8	9	:	;	<	43	44	45	46	47
Region	Zone	Wereda	Farmers' Association	E.A	Household ID	Household Head Sex M = 1 F = 2	Holder ID	Holder's Name	Age	Sex M = 1 F = 2	Educational Level Highest grade Completed	Household Size	Holding type Crop = 1 Livestock = 2 Both = 3

Field Under Temporary Crop, Farm Management Practice & Area Measurement

4		5	6			7	8
Serial Number		Questions for the Holder	Parcel No.	Field No.	Crop name code	Measurement Day / Month	Area in square meters
3	4	Ownership type Owned = 1 Other = 3 Rented / leased = 2					
3	5	Is field under extension package? Yes = 1 No = 2					
3	6	Is irrigation applied? Yes = 1 No = 2					
3	7	Seed type Improved seed =1 Indigenous seed=2					
3	8	For cereals, pulses, and oilseeds only Quantity of indigenous seed In kilogram me		Kilo Gram			
3	9	For cereals, pulses, and oilseeds only Quantity of improved seed In kilogram		Kilo Gram			
3	:	For cereals, pulses, and oilseeds only Price of Improved seed		Birr Cents			
3	;	Was there any crop damage? Yes = 1 No = 2					
3	<	If crop damaged Cause of damage		Cause	Code		
4	3	Percent damaged					
4	4	Was any preventive measure taken? Yes = 1 No = 2					
4	5	If yes, type of measure taken Chemical = 1 Both = 3 Non – chemical					
4	6	If chemical used, type of chemical Insecticide = 1 2 & 3 = 6 Herbicide = 2 All = 7 Fungicide = 3 1 & 2 = 4 1 & 3 = 5					
4	7	Have you used any fertilizer? Yes = 1 No = 2					
4	8	If yes, type of fertilizer Organic = 1 Both = 3 Mineral = 2					
4	9	If mineral fertilizer used **16.1** Type UREA = 1 Both = 3 DAP = 2					
		16.2 Quantity of mineral fertilizer in kilogram		Kilo Gram			
4	:	If organic fertilizer used, type Cow dung = 1 Compost = 2 Manufactured organic = 3 1 & 2 = 4 All = 7 1 & 3 = 5 Others = 8 2 & 3 = 6 Specify others					

	Day	Month	Area in square meters
			Closure Error
Side	4 0 5		5 0 6 / 6 0
Bearing			
Length			
Side	7 0		8 0 / 9 0
Bearing			
Length			
Side	: 0		; 0 / < 0
Bearing			
Length			
Side	43 0		44 0 / 45 0
Bearing			
Length			
Side	46 0		47 0 / 48 0
Bearing			
Length			
Side	49 0		4: 0 / 4; 0
Bearing			
Length			
Side	4< 0		53 0 / 54 0
Bearing			
Length			
Side	55 0		56 0 / 57 0
Bearing			
Length			

For crop cutting purpose
Selected corner no. _____Length of shortside_____
Random no. _____ Short side's bearing _____
Length of long side _____ Random no. _____

If no area measurement reason

Form <:2B

Agricultural Sample Survey of Ethiopia
List of fields under Permanent Crops, Farm management Practice & Area Measurement, Meher Season 2004/05 (1997 E.C)

Part I - Identification Particulars

4	5	6	7	8	9	:	;	<	43	44	45	46	47
Region	Zone	Wereda	Farmers' Association	E.A	Household ID	Household Head Sex M = 1 F = 2	Holder ID	Holder's Name	Age	Sex M = 1 F = 2	Educational Level Highest grade Completed	Household Size	Holding type Crop = 1 Livestock = 2 Both = 3

Field under Permanent Crop, Farm Management Practice & Area Measurement

4		5	6			7		8
Serial Number		Questions for the Holder	Parcel No.	Field No.	Crop name code	Measurement Day	Measurement Month	Area in square meters
3	4	Ownership type Owned = 1 Other = 3 Rented / leased = 2						**Closure Error**
3	5	Is field under extension package? Yes = 1 No = 2				Side	4 0 5	5 0 6
3	6	Number of Fruit Trees +Excluding coffee, Chat, Pineapple, & sugar cane)		Number		Bearing		6 0
3	7	Number of fruit bearing trees +Excluding coffee, Chat, Pineapple, & sugar cane)		Number		Length		
3	8	Is irrigation applied? Yes = 1 No = 2				Side	7 0	8 0
3	9	Seed / Seedling type Improved seed =1 Indigenous seed=2				Bearing		9 0
3	:	Was there any crop damage? Yes = 1 No = 2				Length		
3	;	If crop damaged Cause of damage	Cause		Code	Side	: 0	; 0
3	<	Percent damaged				Bearing		< 0
4	3	Was any preventive measure taken? Yes = 1 No = 2				Length		
4	4	If yes, type of measure taken Chemical = 1 Both = 3 Non – chemical				Side	43 0	44 0
4	5	If chemical used, type of chemical Insecticide = 1 2 & 3 = 6 Herbicide = 2 All = 7 Fungicide = 3 1 & 2 = 4 1 & 3 = 5				Bearing		45 0
						Length		
4	6	Have you used any fertilizer? Yes = 1 No = 2				Side	46 0	47 0
4	7	If yes, type of fertilizer Organic = 1 Both = 3 Mineral = 2				Bearing		48 0
4	8	If mineral fertilizer used **15.1** Type UREA = 1 Both = 3 DAP = 2				Length		
		15.2 Quantity of mineral fertilizer in kilogram	Kilo		Gram	Side	49 0	4: 0
						Bearing		4; 0
4	9	If organic fertilizer used, type Cow dung = 1 Compost = 2 Manufactured organic = 3 1 & 2 = 4 All = 7 1 & 3 = 5 Others = 8 2 & 3 = 6 Specify others				Length		
						Side	4< 0	53 0
						Bearing		54 0
						Length		
						Side	55 0	56 0
						Bearing		57 0
						Length		
						If no area measurement reason		

AgSS. Form 97/3C

Agricultural Sample Survey of Ethiopia
List of Fields under Mixed Crops, Farm Management Practices & Area Measurement, Meher Season 2004/05 (1997 E.C)

Part I – Identification Particulars

4	5	6	7	8	9	:	;	<	43	44	45	46	47
			Farmers'		Household	Household Head Sex M = 1 F = 2	Holder ID	Holder's Name	Age	Sex M = 1 F = 2	Educational Level Highest grade Completed	Household Size	Holding type Crop = 1 Livestock = 2 Both = 3
Region	Zone	Wereda	Association	E.A	ID								

Field Under Temporary Crop, Farm Management Practice & Area Measurement

4		5	6							7		8	
Serial Number		Questions for the Holder	Parcel no. / Crop name / code		Field no. / Crop name / code		Crop name / code			Measurement Day	Month	Area in square meters	
												Closure Error	
3	4	Ownership type Owned = 1 Rented / leased = 2 Other = 3								Side	4 0 5	5 0 6	6 0
3	5	Is field under extension package? Yes = 1 No = 2								Bearing			
3	6	Is irrigation applied? Yes = 1 No = 2								Length			
3	7	Percentage share of crop area								Side	7 0	8 0	9 0
3	8	Number of fruit trees (Excluding coffee, Chat, pineapple,Sugarcane)								Bearing			
3	9	Number of fruit bearing trees (Excluding coffee, Chat, pineapple,Sugarcane)								Length			
3	:	Seed / Seedling type Improved seed =1 Indigenous seed=2								Side	: 0	; 0	< 0
3	;	For cereals, pulses, and oilseeds only Quantity of indigenous seed In kilogram me	Kilo Grm		Kilo Grm		Kilo Grm			Bearing			
3	<	For cereals, pulses, and oilseeds only Quantity of improved seed In kilogram	Kilo Grm		Kilo Grm		Kilo Grm			Length			
4	3	For cereals, pulses, and oilseeds only Price of Improved seed	Birr Cent		Birr Cent		Birr Cent			Side	43 0	44 0	45 0
4	4	Was there any crop damage? Yes = 1 No = 2								Bearing			
4	5	If crop damaged Cause of damage	Cause	c	Cause	c	Cause	c		Length			
4	6	Percent damaged								Side	46 0	47 0	48 0
4	7	Was any preventive measure taken? Yes = 1 No = 2								Bearing			
4	8	If yes, type of measure taken Chemical = 1 Both = 3 Non – chemical								Length			
4	9	If chemical used, type of chemical Insecticide = 1 2 & 3 = 6 Herbicide = 2 All = 7 Fungicide = 3 1 & 2 = 4 1 & 3 = 5								Side	49 0	4: 0	4; 0
4	:	Have you used any fertilizer? Yes = 1 No = 2								Bearing			
4	;	If yes, type of fertilizer Organic = 1 Both = 3 Mineral = 2								Length			
4	<	If mineral fertilizer used **16.1** Type UREA = 1 Both = 3 DAP = 2								Side	4< 0	53 0	54 0
		16.2 Quantity of mineral fertilizer in kilogram	Kilo Gram							Bearing			
5	3	If organic fertilizer used, type Cow dung = 1 Compost = 2 Manufactured organic = 3 1 & 2 = 4 All = 7 1 & 3 = 5 Others = 8 2 & 3 = 6 Specify others								Length			
										Side	55 0	56 0	57 0
										Bearing			
										Length			

For crop cutting purpose
Selected corner number_____
Short side's length_____
Random number_____
Short side's bearing _____
Long side's length_____
Random number_____
If no area measurement reason

Form AgSS. <:26D

Agricultural Sample Survey of Ethiopia
List of Non - Crop Field & Area Measurement,
0 Meher Season 2004/05 (1997 E.C)

Part I – Identification Particulars

4	5	6	7	8	9	:	;	<	43	44	45	46	47
Region	Zone	Wereda	Farmers' Association	E.A	Household ID	Household Head Sex M = 1 F = 2	Holder ID	Holder's Name	Age	Sex M = 1 F = 2	Educational Level Highest grade Completed	Household Size	Holding type Crop = 1 Livestock = 2 Both = 3

Part II – Non - Crop Field Area Measurement

4	5	6	7	8	9
Parcel Number	Field Number	Land use type	Code	Ownership type Owned = 1 Rented / leased = 2 Other = 3	Code

Measurement	Day	Month	Area in square meters			Closure error		
Side	4 0 5	5 0 6	6 0	7 0	8 0	9 0	: 0	; 0
Bearing								
Length								
Side	< 0	43 0	44 0	45 0	46 0	47 0	48 0	49 0
Bearing								
Length								
Side	4: 0	4; 0	4< 0	53 0	54 0	55 0	56 0	57 0
Bearing								
Length								
If no area measurement, reason →								

Part III – Miscellaneous Questions

:	;	<
	Questions	´é
4	Do you practice rotation of crops? Yes = 1 No = 2	
5	If irrigation used, source of water River =1 Pool = 3 Other = 5 Lake = 2 Pond = 4 None = 6	
6	Ways of prevention of erosion, if any? Terracing = 1 Ploughing along the contour = 4 Water catchments = 2 others (specify) = 5 Afforestation = 3 None = 6	
7	Reason for not using mineral fertilizer	
8	Extension package practice during this agricultural season, if any? Yes = 1 No = 2	
9	If no, reason for not practicing in extension package	
:	Benefits from Credit Services in the locality, if any? Yes = 1 No = 2	
;	Benefits from Agriculture Advisory Services in the locality, if any? Yes = 1 No = 2	
<	Your major supplier of mineral fertilizers Government organizations = 1 Others = 4 Private organizations =2 None = 5 Traders = 3	

Form AgSS. <:27

Agricultural Sample Survey of Ethiopia
List of Temporary Crop Fields for Crop Cutting Purposes
Meher Season 2004/05 (1997 E.C)

Part I – Identification Particular

	5	6	7	8	9	:	;	<	43	44	45	46	
								Holder's					
	Zone	Wereda	Farmers' Association	E.A	Household ID	Household Head Sex M = 1 F = 2	Holder ID	Name	Age	Sex M = 1 F = 2	Educational Level Highest grade Completed	Household Size	H (Liv F

Part II – List of temporary crop fields for selection of crop cutting plots

	6	7	8	9	:	;	<	43	44	45	46	47	48	49	4:	4;	4<	53	54	55	
			Crop name																		
	Crop name	code	Field No.	Selected Field No.	Field No.	Selected Field No.	Field No.	Selected Field No.	Field No.	Selected Field No.	Field No.	Selected Field No.	Field No.	Selected Field No.	Field No.	Selected Field No.	Field No.	Selected Field No.	Field No.	Selected Field No.	

Form AgSS. <:28

Agricultural Sample Survey of Ethiopia
List of Temporary Crop Fields for Crop Cutting
Meher Season 2004/05 (1997 E.C)

Part I – Identification Particular

	5	6	7	8	9	:	;	<	43	44	45	46	47
ɔn	Zone	Wereda	Farmers' Association	E.A	Household ID	Household Head Sex M = 1 F = 2	Holder ID	Holder's Name	Holder's Age	Sex M = 1 F = 2	Educational Level Highest grade Completed	Household Size	Holding ty Crop = Livestock Both =

Part II – Temporary Crop Cutting Results

	5	6	7	8		9		:		;		<		43	44	45	4
												Was there any crop damage?					
	Field No.	Crop name	code	Crop cutting day	month	Fresh Weight Of the harvest Kilo	Gram	Dry Weighing Day	Month	Dry Weight Kilo	Gram	Yes = 1 No = 2 Code		If yes Cause of damage	Code	Percent Of crop damaged	Crop Pure s Mixe