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CENTRAL STATISTICAL AGENCY

AGRICULTURAL SAMPLE SURVEY

2012 / 2013 (2005 E.C.)

VOLUME I

REPORT ON

AREA AND PRODUCTION OF MAJOR CROPS

(PRIVATE PEASANT HOLDINGS, MEHER SEASON)

ADDIS ABABA
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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

The sound performance of agriculture warrants the availability of food crops. This accomplishment in agriculture does not only signify the adequate acquisition of food crops to attain food security, but also heralds a positive aspect of the economy. In regard to this, collective efforts are being geared to securing agricultural outputs of the desired level so that self reliance in food supply can be achieved and disaster caused food shortages be contained in the shortest possible time in Ethiopia.

The prime role that agriculture plays in a country's political, economic and social stability makes measures of agricultural productions extremely sensitive. Statistics collected on agricultural productions are, therefore, fraught with questions of reliability by data users. To tackle these questions convincingly and dissipate the misgivings of users, information on agriculture has to be collected using standard procedures of data collection.

Upholding this principle, the Central Statistical Agency (CSA) has been furnishing statistical information on the country's agriculture since 1980/81 to alert policy interventionists on the changes taking place in the agricultural sector. As part of this task the 2012/13 (2005 E.C.) Agricultural Sample Survey (AgSS) was conducted to provide data on crop area and production of crops within the private peasant holdings for Meher Season of the specified year. The survey results are presented in this bulletin and other electronic media for data users.

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 results. 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 are 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 Post Harvest Survey (Area and production, land use, farm management and crop utilization), Livestock Survey and Belg Season Survey.

The specific objectives of Meher Season Post Harvest Survey are to estimate the total crop area, volume of crop production and yield of crops for Meher Season agriculture in Ethiopia. The report is based on private peasant holdings in rural sedentary areas of the country and part of companion reports on the performance of agriculture in the country. The report is compiled at regional and zonal level.

PART II

SURVEY METHODOLOGY, DATA COLLECTION AND PROCESSING

2.1. SCOPE AND COVERAGE OF THE SURVEY

The range of data items that the 2012/13 (2005 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 and / or other crops are enumerated and data on crop area and yield condition recorded, hence data on production of these crops acquired.

The 2012/13 (2005 E.C.) Annual Agricultural Sample Survey (Meher season) covered the entire rural parts of the country except the non-sedentary population of three zones of Afar & six zones of Somali regions.

To be covered by the survey, a total of **2,240** Enumeration Areas (EAs) were selected. However, due to various reasons that are beyond control, in 37 EAs the survey could not be successful and hence interrupted. Thus, all in all the survey succeeded to cover **2,203** EAs (98.35 %) throughout the regions. The Annual Agricultural Sample survey (Meher season) was conducted on the basis of 20 agricultural households selected from each EA. Regarding the ultimate sampling units, it was intended to cover a total of 44,800 agricultural households, however, 44,202 (98. 67 %) were actually covered by the survey.

2.2 SAMPLING FRAME

The list containing EAs of all regions and their respective households obtained from the 1999 E.C cartographic census frame 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. The second stage sampling units, households, were selected from a fresh list of households that were prepared for each EA at the beginning of the survey.

2.3 SAMPLE DESIGN

In order to select the sample a stratified two-stage cluster sample design was implemented. Enumeration areas (EAs) were taken to be the primary sampling units (PSUs) and the secondary sampling units (SSUs) were agricultural households. The sample size for the

2012/13 (2005 E.C.) agricultural sample survey was determined by taking into account of 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 control was also considered.

All regions were taken to be the domain of estimation for which major findings of the survey are reported.

2.4 SELECTION SCHEME

Enumeration areas from each stratum were selected systematically using probability proportional to size sampling technique; size being number of agricultural households. The sizes for EAs were obtained from the 2007 Population and Housing census frame. From the fresh list of households prepared at the beginning of the survey 20 agricultural households within each sample EA were selected systematically.

Estimation procedure of totals, ratios, sampling error and the measurement of precision of estimates (CV) are given in Appendix-I and II respectively. Distribution of sampling units (sampled and covered EAs and households) by stratum is also presented in Appendix-III.

2.5. 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 Desks 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 for administering the financial and logistic aspects of the survey within their areas of operation. A total of 2,394 enumerators, 529 field supervisors and 66 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 194 four-wheel drive vehicles were used.

2.6. 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 are 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 Bahir-Dar, the Amhara Regional State's capital, and lasted 7 days targeted staff from the Head Office, statisticians 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 15 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, 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, GPS reading and interviewing methods.

2.7. METHOD OF DATA COLLECTION

The agricultural data for the year 2012/13 (2005 E.C.) was collected from sedentary rural peasant households by interviewing the selected agricultural holders and physically measuring their fields to obtain 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, GPS (Oromiya region only) and others were used during data collection for a timely and smooth acquisition of accurate data. The procedures for measuring area under crop and area of non - crop fields operated by the holders were performed for the 30 selected households from each sampled E.A. using measuring tapes, compasses as well as GPS.

2.8. 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.

Editing, coding and verification instruction manual was prepared and reproduced for this purpose. Then 66 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 18 days.

b) Data Entry, Cleaning and Tabulation

Before data entry, the Agriculture, Natural Resources and Environment Statistics Directorate of the CSA 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 70 data encoders, 10 data encoder supervisors, 12 data cleaning operators and 55 personal computers. The data entered into the computers using the entry module of the CSPRO (Census and Survey Processing System) software, which is a software package developed by the United States Bureau of the Census. Following the data entry operations, the data was further reviewed for data inconsistencies, missing data … etc. by the regular professional staff from Agriculture, Natural Resources and Environment Statistics Directorate. The final stage of the data processing was to summarizing the cleaned data and produce statistical tables that present the results of the survey using the tabulation component of the PC based CSPRO software produced by professional staff from Agriculture, Natural Resources and Environment Statistics Directorate.

2.9. 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 without 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 land use (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 the months of 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 Pagume (August) is considered to be Belg Season Crop.

Note:-

1. If in some tables figures do not add up to total it is due to rounding
2. Those area and production designated by "*" in all tables could not be reported because of high coefficient of variation (i.e. they are less reliable). However, they are consolidated in the total estimates.

3.In all tables "-" indicates not reported.

PART III

SUMMARY OF SURVEY RESULTS

3.1 INTRODUCTION

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**.

Crop yield per area (amount of crop harvested per amount of land cultivated) is the most commonly used impact indicator for agricultural productivity activities. Crop yields are inevitably affected by many factors, these are weather, input price, changes in farming practices, amounts of fertilizer used, quality of seed varieties,and use of irrigation.

3.2 Major Findings of the Year 2012/13 (2005 E.C.), Post-Harvest Crop Production Survey, Meher Season

The results of the year 2012/13 (2005 E.C.), Meher Season Post-harvest Crop Production Survey has been summarized and quantitative information with regard to farm management practice, land use and Utilization of agricultural produce will be made available at national, regional and zonal reporting levels, consecutively, following this report. This report, however, presents quantitative information on cropped land area and production of both temporary and permanent crops at Country, Regional and Zonal reporting levels.

In this section of the report, therefore, brief discussions on the major findings of the Survey are presented as follows.

3.2.1 Grain Crops:- refers to the major crop category that included cereals**,** pulses and oilseeds, which not only constituted the major food crops for the majority of the country's

population but also served as a source of income at household level and a contributer for the country's foreign currency earnings, among others.

The results of the year **2012/13 (2005 E.C.)**, Meher Season Post-harvest Crop Production Survey indicate that a total land area of about **12,282,929.9812** hectares are covered by grain crops i.e. cereals, pulses and oilseeds, from which a total volume of about **231,288,471.77** quintals of grains are obtained, from private peasant holdings (See Table 1 below).

Table 1 Total Area and Production of Grain Crops for Private holdings, 2012/13 (2005 E.C.), Meher Season

Crop Category	Total Area in Hectare	%	Total Production in Qts	%
Cereals.....	**9,601,035.26**	**78.17**	**196,511,515.46**	**84.96**
Pulses.....	**1,863,445.42**	**15.17**	**27,510,311.88**	**11.89**
Oil Crop……..	**818,449.3**	**6.66**	**7,266,644.43**	**3.14**
Grain Crops……	**12,282,929.98**	**100**	**231,288,471.77**	**100**

Note:- Assuming the* 2011/12 *Belg season and commercial farms cropland area and production to be the same as the* 2012/13 *production year , the country level total crop production of both season from all sectors for the* 2012/13 *is estimated to be :-

	Grain Crops Area in Ha	Estimated Production in Qts
• **Private holdings in 2012/13 Meher Season**	**12,282,929.98**	**231,288,471.77**
• **Commercial farms 2012/13 both Seasons**	**459,570.35**	**9,870,267.38**
• **Private holdings 2012/13 Belg Season**	**1,192,051.38**	**9,532,510.04**
Grand Total	**13,934,551.71**	**250,691,249.19**

within the category of Grain crops**,** Cereals are the major food crops both in terms of the area they are planted 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 2 well underpin this finding of the survey.

Out of the total grain crop area, 78.17% (9,601,035.26 hectares) was under cereals. Teff, maize, sorghum and wheat took up 22.23% (about 2,730,272.95 hectares), 16.39% (about 2,013,044.93 hectares), 13.93 % (1,711,485.04 hectares) and 13.25% (1,627,647.16hectares) of the grain crop area, respectively. As to production, the tables paint similar picture as that

of the area. Cereals contributed 84.96% (about 196,511,515.46 quintals) of the grain production. Maize, teff, wheat and sorghum made up 26.63% (61,583,175.95quintals), 16.28% (37,652,411.66 quintals), 14.85% (34,347,061.22 quintals) and 15.58% (36,042,619.65 quintals) of the grain production, in the same order.

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 2.

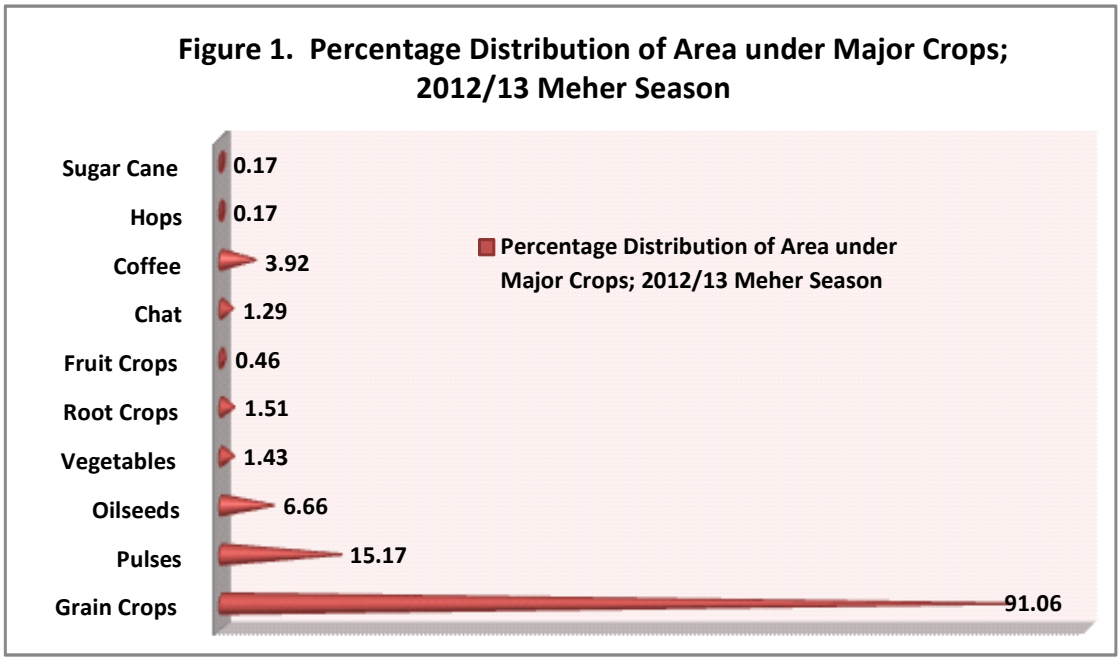
Pulses grown in 2012/13 (2005 E.C.) covered 15.17 % (1,863,445.42 hectares) of the grain crop area and 11.89% (about 27,510,311.88 quintals) of the grain production was drawn from the same crops. Faba beans, haricot beans, and chick peas were planted to 4.67 % (about 574,060.45 hectares), 2.99% (about 366,876.94 hectares) and 1.95% (about 239,512.43 hectares) of the grain crop area. The production obtained from faba beans, haricot beans and chick peas was 4.08% (about 9,439,641.70 hectares), 2.00**%** (about 4,630,084.90 hectares) and 1.77**%**(4,097,331.63 hectares) quintals of the grain production, in that order.

Oilseeds refer to crops which are also classified within grain crops category**,** nonetheless**.** oilseeds are 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 2 underscores this point in detail.

Oil seeds added 6.66 % (about 818,449.30 hectares) of the grain crop area and 3.14**%** (about 7,266,644.43 quintals) of the production to the national grain total. Neug, sesame and linseed covered 2.47% (about 303,627.70 hectares), 1.95% (about 239,532.34 hectares) and 1.04% (about 127,883.03 hectares) of the grain crop area and 0.92% (about 2,124,155.39 quintals), 0.78 % (about 1,813,760.51 quintals) and 0.53% (about 1,220,643.34 quintals) of the grain production, respectively.

3.2.2 <u>Vegetables</u>- holders living near to 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. Figure 1 underlines this more in the report. Vegetables took up about 1.43 % of the area under all crops at national level. However, Of the total estimated area under vegetables, the lion share which is about 70.89% and 18.07% was under Red peppers and Ethiopian Cabbage,

respectively(See Statistical Table 2). Production of vegetables contribute 2.95% of the total crops production, conversely,of the total production of vegetables, the above mentioned crops have the lions share, i.e. about 37.14% and 43.53%, in that order.



3.2.3 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 results. Table 2 substantiates this point in more details.

Root crops covered more than 1.51% of the area under all crops and contributed 12.58% to the production of all crops total in the country (See Figure 1). Neverthless, Potatoes, Sweet potatoes and Taro ('Godere') added about 36.74%, 20.41% and 20.27% to the area of the root crop total. The same crops contributed 23.78 %, 32.65 % and 30.79% to the root crop production total in the same order.

Table 2 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

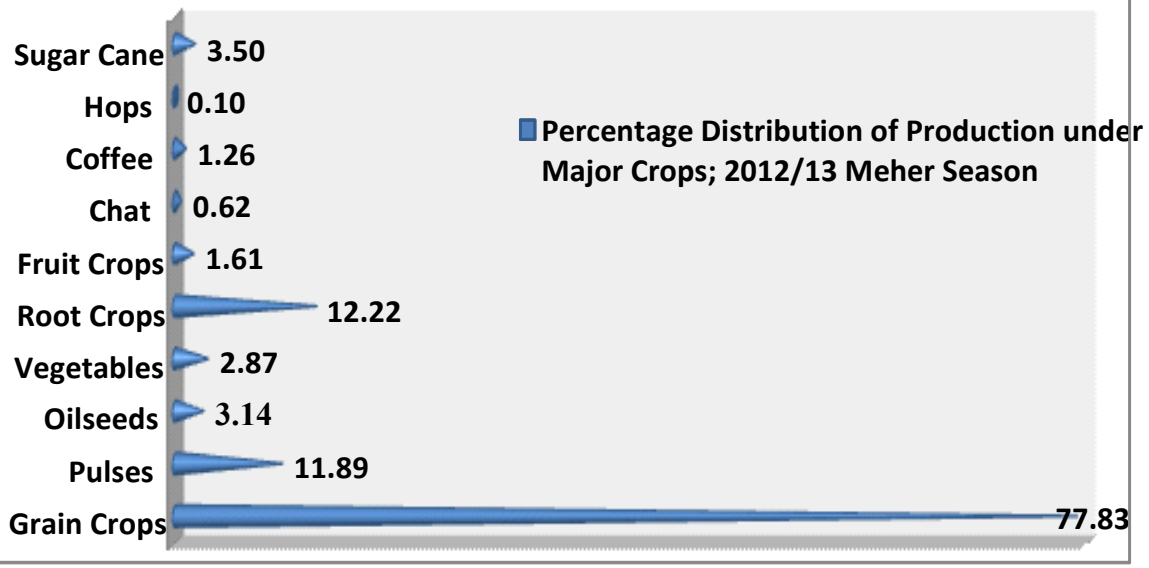
Ethiopia

Crop	Number of holders	Area in Hectare	% distribution	Production in quintal	% distribution	yield (qt / ha)
Grain Crops.	**14,143,900.00**	**12,282,929.98**	**100.00**	**231,288,471.77**	**100.00**	
Cereals.....	**13,590,449.00**	**9,601,035.26**	**78.17**	**196,511,515.46**	**84.96**	
Teff.....	6,281,777.00	2,730,272.95	22.23	37,652,411.66	16.28	13.79
Barley.....	4,461,619.00	1,018,752.94	8.29	17,816,522.08	7.70	17.49
Wheat.....	4,844,368.00	1,627,647.16	13.25	34,347,061.22	14.85	21.10
Maize.....	9,289,203.00	2,013,044.93	16.39	61,583,175.95	26.63	30.59
Sorghum.....	4,953,837.00	1,711,485.04	13.93	36,042,619.65	15.58	21.06
Finger millet.....	1,577,250.00	431,506.89	3.51	7,422,971.46	3.21	17.20
Oats/'Aja'.....	262,000.00	26,514.10	0.22	436,337.83	0.19	16.46
Rice.....	115,832.00	41,811.25	0.34	1,210,415.62	0.52	28.95
Pulses.....	**8,489,764.00**	**1,863,445.42**	**15.17**	**27,510,311.88**	**11.89**	
Faba beans..... .	4,437,683.00	574,060.45	4.67	9,439,641.70	4.08	16.44
Field peas.....	1,854,521.00	255,968.83	2.08	3,273,775.14	1.42	12.79
Haricot beans.....	3,143,465.00	366,876.94	2.99	4,630,084.90	2.00	12.62
Chick-peas.....	1,070,207.00	239,512.43	1.95	4,097,331.63	1.77	17.11
Lentils.....	952,910.00	123,718.15	1.01	1,514,999.32	0.66	12.25
Vetch.....	947,596.00	205,374.20	1.67	3,255,805.54	1.41	15.85
Soya beans.....	115,968.00	31,854.75	0.26	636,531.01	0.28	19.98
Fenugreek.....	762,943.00	32,909.63	0.27	293,334.93	0.13	8.91
Gibto.....	173,848.00	33,170.03	0.27	368,807.70	0.16	11.12
Oilseeds.....	**3,771,902.00**	**818,449.30**	**6.66**	**7,266,644.43**	**3.14**	
Neug.....	1,073,468.00	303,627.70	2.47	2,124,155.39	0.92	7.00
Linseed.....	1,148,548.00	127,883.03	1.04	1,220,643.34	0.53	9.54
Groundnuts.....	380,218.00	90,155.57	0.73	1,244,187.53	0.54	13.80
Sunflower.....	222,210.00	11,413.74	0.09	132,793.77	0.06	11.63
Sesame.....	675,581.00	239,532.34	1.95	1,813,760.51	0.78	7.57
Rapeseed.....	1,153,721.00	45,836.92	0.37	731,103.90	0.32	15.95
Vegetables.....	**6,789,289.00**	**192,555.39**	**100.00**	**8,523,082.90**	**100.00**	
Lettuce.....	46,219.00	75.01	0.04	*	*	*
Head Cabbage.....	493,796.00	3,049.01	1.58	232,247.44	2.72	76.17
Ethiopian	3,712,001.00	34,791.05	18.07	3,709,951.99	43.53	106.64
Tomatoes.....	238,829.00	7,237.35	3.76	555,142.79	6.51	76.71
Green peppers.....	1,347,712.00	10,588.52	5.50	855,477.90	10.04	80.79
Red peppers.....	2,367,949.00	136,503.73	70.89	3,165,614.50	37.14	23.19
Swiss chard.....	78,381.00	310.70	0.16	3,290.41	0.04	10.59
Root Crops.....	**6,320,016.00**	**203,958.15**	**100.00**	**36,298,616.52**	**100.00**	
Beetroot.....	499,261.00	1,795.25	0.88	168,485.13	0.46	93.85
Carrot.....	194,080.00	1,132.94	0.56	51,046.70	0.14	45.06
Onion.....	789,912.00	21,865.37	10.72	2,191,886.02	6.04	100.24
Potatoes.....	1,571,806.00	74,934.57	36.74	8,633,477.92	23.78	115.21
Garlic.....	2,717,711.00	21,258.43	10.42	2,225,479.30	6.13	104.69
Taro/'Godere'.....	1,531,855.00	41,337.62	20.27	11,177,733.55	30.79	270.40
Sweet potatoes.....	1,388,383.00	41,633.95	20.41	11,850,507.89	32.65	284.64
Fruit Crops.....	**3,435,238.00**	**61,972.60**	**100.00**	**4,793,360.64**	**100.00**	**77.35**
Avocados.....	1,149,074.00	8,938.24	14.42	256,331.64	5.35	28.68
Bananas.....	2,168,521.00	36,012.19	58.11	3,025,022.32	63.11	84.00
Guavas.....	261,871.00	1,492.32	2.41	11,730.03	0.24	7.86
Lemons.....	161,275.00	754.23	1.22	55,167.50	1.15	73.14
Mangoes.....	907,398.00	8,808.64	14.21	697,507.30	14.55	79.18
Oranges.....	421,467.00	2,999.21	4.84	357,458.39	7.46	119.18
Papayas.....	546,453.00	2,752.08	4.44	386,943.15	8.07	140.60
Pineapples.....	33,542.00	215.69	0.35	*	*	*
Chat.....	**2,511,819.00**	**173,844.91**		**1,830,612.51**		**10.53**
Coffee.....	**4,217,961.00**	**528,751.11**		**3,739,406.42**		**7.07**
Hops.....	**2,016,927.00**	**22,944.71**		**289,530.32**		**12.62**
Sugar Cane.....	**1,068,121.00**	**22,388.48**		**10,398,657.46**		**464.46**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	113,999,188	**10,936,627.60**	**12,985,122.73**	**461,280.87**	**0.10**	**0.11**	*

3.2.4 Fruit Crops – The survey results 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. About 61,972.60 hectares of land is under fruit crops in Ethiopia. Bananas contributed about 58.11% of the fruit crop area followed by mangoes that contributed 14.21% of the area. More than 4,793,360.64 quintals of fruits was produced in the country. Bananas, Papayas, Mangoes and Oranges took up 63.11%, 8.07%, 14.55% and 7.46% of the fruit production, respectively, as shown in Table 2.

Figure 2. Percentage Distribution of Production under Major Crops; 2012/13 Meher Season



3.2.5 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 2 show Chat and Coffee shared 1.29% and 3.92% of the area under all crops in the country and 1,830,612.51 and 3,739,360.64 quintals of produce was obtained from these crops in the same agricultural year respectively.

3.2.6 Sugar Cane - is grown in small areas in some parts of the country within the private peasant holdings. About 22,388.48 hectares of land was under sugar cane in the country, yielding an estimated total of 10,398,657.46 quintals of produce by the peasant holders. But the production is not usually used for industrial purposes. It is noticeably used up in household consumption.

3.2.7 Enset :- is grown in south-western part of the country and covers considerable land area within the private holdings. The number of Enset trees to be harvested, in the current agricultural year, from all over the country is estimated to be 113,999,188. Thus, the total produce in the form of Amicho, Kocho, and Bula is 10,936,627.60 quinals, 12,985,122.73 quintals and 461,280.87 quintals respectively (see Table 4).

3.3 Comparison of the current year 2012/13 (2005 E.C.) Post - Harvest Crop yield with 2011/12 (2004 E.C), estimates.

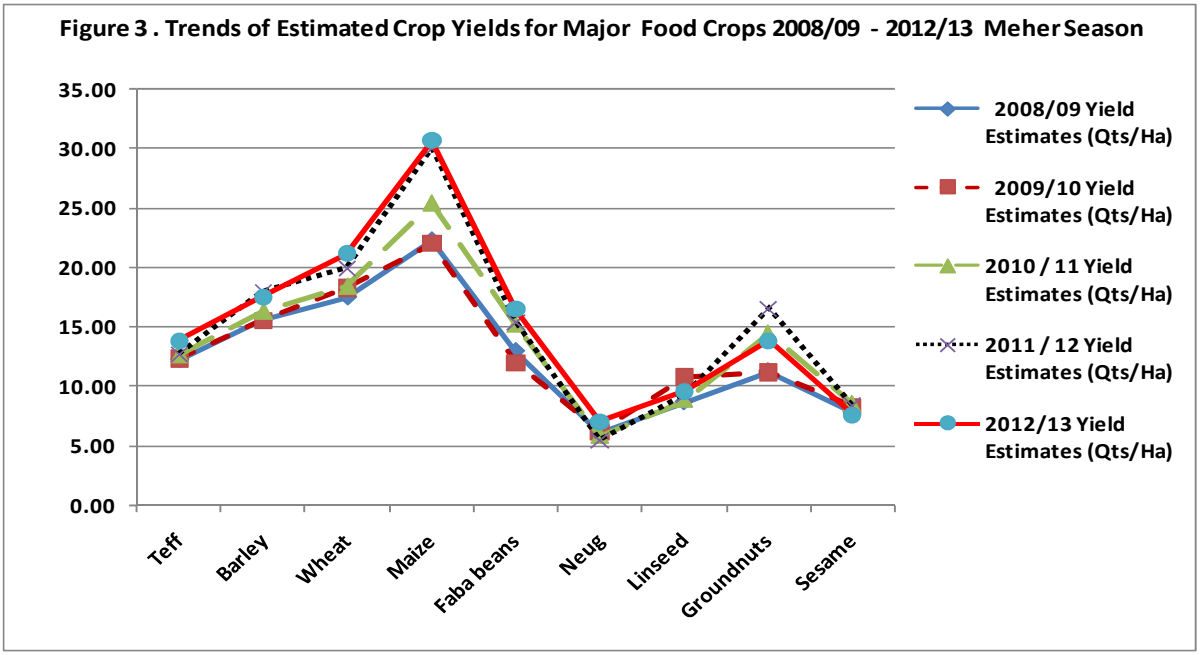
In this section of the report an attempt has been made to compare the post-harvest crop productivity estimates of selected important food crops obtained from the 2012/13 (2005 E.C.) Agricultural Sample Survey with last year i.e. **2011/12 (2004 E.C)** crop yield estimates of the same crops.

The presentation of such comparisons are believed to give a bird's eye view whether or not the current year estimated increase in the volume of production over the last year estimate, is effected from increased cropped area or due to the attainment of enhanced crop yield or the contribution of both have brought the increment of the current year production, contributed but enhanced crop yield taken up the lion share, so as one can generally indicate the direction, the rate of change and the level of steps the agriculture sector taking up on the ladder of transformation to commercialized agriculture from its intial subsistence and back ward starting point. Of course, it should be noted that, except for the progress made during the the last two and half decades, the agricultural sector in Ethiopia had remained stagnant for centuries with limited progress in few specific areas.

Consequently, the outcome of such comparisons are believed to serve as problem area indicators for concerned stakeholders to develop and implement corrective measures, that could help to accelerate the speed of transforming the existing agriculture into commercial agriculture. Thus, to meet the objectives mentioned so far, the following brief discussions on the results of crop productivity comparisons was made for selected important food crops at country level as follows:

Since the rain fall was normal and adequate in the current crop-growing season, the 2012/13 (2005 E.C.) main season crop production has shown significant increament both in the estimated cropped land area and volume of grain crops production. As indicated in Table 3,

the 2012/13 (2005 E.C.) estimated cropped area and volume of production have increased by about **2.78 %** and **7.41%** over last year 2011/12 (2004 E.C) post harvest estimate.



Conversely, with regard to estimated crop yield, crops such as maze, teff, and wheat within the category of cereals have shown an increment, that ranges from 22.24Qt/Ha to 30.59 Qt/Ha for Maize; from 12.20 Qt/Ha to 13.79 Qt/Ha for Teff; and from 17.46 to 21.10 Qt/Ha for Wheat over the last five years (2008/09 - 2012/13) Post-harvest estimates. Similarly crops such as faba beans, linseed and ground nuts have shown an increment that ranges from 12.92 to 16.44Qt/Ha for faba beans , from 8.63 to 9.54Qt/Ha for linseed, and from 11.23 to 13.80Qt/Ha for ground nuts over 2008/09 and 2012/13 estimates. (See Figure 3).

Table 3 - Estimate of Area and Production of Grain Crops for 2011/12 (2004 E.C) and 2012/13 (2005 E.C.), Meher Season

Region	Area in hectare			Production in quintal		
	2011 / 12 (2004 E.C)	2012/13 (2005 E.C.)	% Change	2011 / 12 (2004 E.C)	2012/13 (2005 E.C.)	% Change
TIGRAY	864,918.44	877,506.12	1.46	14898420.68	15,463,990.11	3.80
AFAR	4,872.34	3,754.37	-22.95	154601.54	195,769.21	26.63
AMHARA	4,287,155.22	4,366,386.09	1.85	69696481.18	73,122,044.45	4.91
OROMIA	5,492,725.53	5,598,771.59	1.93	108089194.20	114,681,202.22	6.10
SOMALI	65437.05	69,212.30	5.77	1736903.70	2,059,491.14	18.57
BENISHANGUL-GUMUZ	241322.91	243,931.23	1.08	4018792.28	4,420,519.00	10.00
S.N.N.P.R	1,100,253.47	1,092,583.61	-0.70	19434595.15	20,832,698.65	7.19
GAMBELA	7975.03	8,847.59	10.94	162683.35	202,408.82	24.42
HARARI	11593.13	11,205.44	-3.34	225687.68	140,268.37	-37.85
DIRE DAWA	10350.76	10,731.66	3.68	153069.91	170,079.81	11.11
ALL	12,086,603.88	12,282,929.98	1.62	218,570,429.67	231,288,471.77	5.82

Following the same Pattern, the results of the **2012/13 (2005 E.C.),** Post-harvest agricultural Sample Survey, indicates that both the largest grain cropped land area and the highest volume of production obtained in the current Meher season is reported for Oromia, Amhara, SNNP, Tigray and Benshangul-Gumuz Regions. Accordingly, except for a slight decrease by 0.70 for SNNP regional state, the total grain cropped area reported for Oromia, Amhara, Tigray and Benshangul-Gumuz Regions have increased by about **1.93**%, **1.85**%, **1.46**%, and **1.08**% over last year 2011/12 post harvest estimate respectivey. Following the same pattern the current year harvested volume of production reported for the above mentioned regions have increased by about **6.10**%, **4.91**%, **7.19**%, **3.80**% and **10.00**% over last year's **2011/12 (2004 E.C)** post harvest estimate of the regions, in that order (For details see Table .3 and figure 4).

Figure 4. Crop Land Area and Production of Grain Crops by Regions; 2011/12 and 2012/13, Meher Season

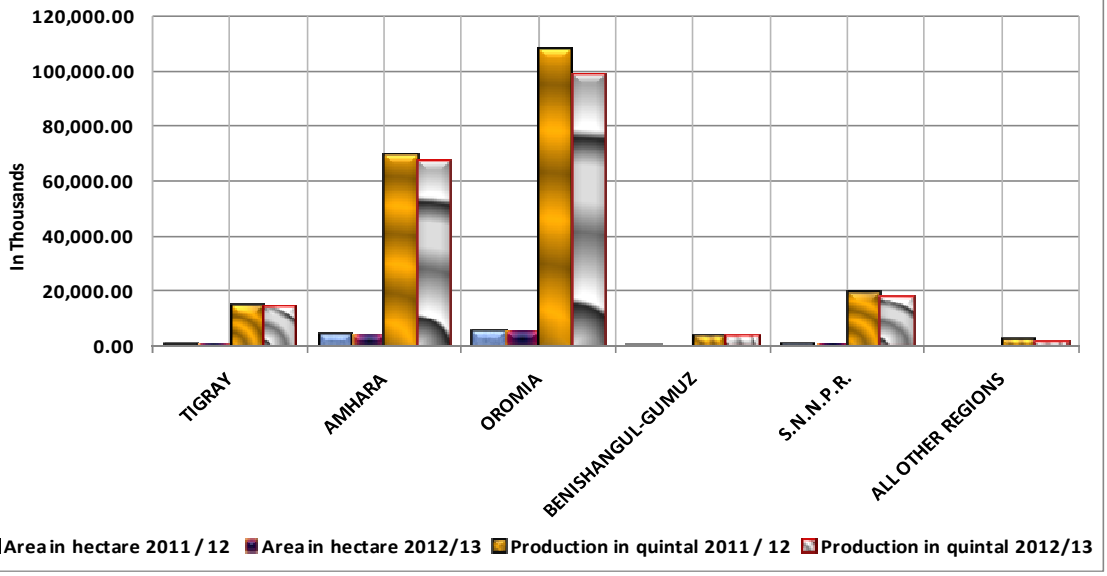


Table 4 - Estimate of Area, Production and Yield of Crops for 2011/12 (2004 E.C) and 2012/13 (2005 E.C.), Meher Season

Ethiopia

Crop	Area in hectare			Production in quintal			Yield (quintal / hectare)		
	2011 / 12 (2004 E.C)	2012/13 (2005 E.C.)	% Chang	2011 / 12 (2004 E.C)	2012/13 (2005 E.C.)	% Chang	2011 / 12 (2004 E.C)	2012/13 (2005 E.C.)	% Chang
Grain crops	**12,086,603.89**	**12,282,929.98**	1.62	***218,570,429.6***	**231,288,471.77**	5.82		**18.83**	
Cereals	**9,588,923.71**	**9,601,035.26**	0.13	***188,099,616.9***	**196,511,515.46**	4.47			
Teff	2,731,111.67	2,730,272.95	-0.03	*34,976,894.64*	37,652,411.66	7.65	*12.81*	13.79	7.65
Barley	948,107.43	1,018,752.94	7.45	*15,852,869.21*	17,816,522.08	12.39	*16.72*	17.49	4.61
Wheat	1,437,484.73	1,627,647.16	13.23	*29,163,336.88*	34,347,061.22	17.77	*20.29*	21.10	3.99
Maize	2,054,723.69	2,013,044.93	-2.03	*60,694,130.14*	61,583,175.95	1.46	*29.54*	30.59	3.55
Sorghum	1,923,717.49	1,711,485.04	-11.03	*39,512,942.36*	36,042,619.65	-8.78	*20.54*	21.06	2.53
Finger millet	432,561.00	431,506.89	-0.24	*6,518,509.00*	7,422,971.46	13.88	*15.07*	17.20	14.13
Oats / 'Aja'	30,568.39	26,514.10	-13.26	*494,749.24*	436,337.83	-11.81	*16.18*	16.46	1.73
Rice	30,649.30	41,811.25	36.42	*886,185.47*	1,210,415.62	36.59	*28.91*	28.95	0.14
Pulses	**1,616,809.37**	**1,863,445.42**	15.25	***23,162,012.43***	**27,510,311.88**	18.77			
Faba beans	457,559.94	574,060.45	25.46	*7,147,960.23*	9,439,641.70	32.06	*15.62*	16.44	5.25
Field peas	212,890.15	255,968.83	20.24	*2,632,663.87*	3,273,775.14	24.35	*12.37*	12.79	3.40
Haricot beans	331,708.15	366,876.94	10.60	*3,878,023.01*	4,630,084.90	19.39	*11.69*	12.62	7.96
Chick-peas	231,298.54	239,512.43	3.55	*4,002,077.19*	4,097,331.63	2.38	*17.3*	17.11	-1.10
Lentils	109,895.27	123,718.15	12.58	*1,280,087.87*	1,514,999.32	18.35	*11.65*	12.25	5.15
Grass peas	179,866.13	205,374.20	14.18	*3,055,753.10*	3,255,805.54	6.55	*16.99*	15.85	-6.71
Soya beans	19,397.16	31,854.75	64.22	*358,802.94*	636,531.01	77.40	*18.5*	19.98	8.00
Fenugreek	39,964.58	32,909.63	-17.65	*362,939.17*	293,334.93	-19.18	*9.08*	8.91	-1.87
Gibto	34,229.45	33,170.03	-3.10	*443,705.05*	368,807.70	-16.88	*12.96*	11.12	-14.20
Oilseeds	**880,870.81**	**818,449.30**	-7.09	***7,308,800.29***	**7,266,644.43**	-0.58			
Neug	309,010.72	303,627.70	-1.74	*1,863,205.76*	2,124,155.39	14.01	*6.03*	7.00	16.09
Linseed	116,541.40	127,883.03	9.73	*1,127,607.00*	1,220,643.34	8.25	*9.68*	9.54	-1.45
Groundnuts	64,476.52	90,155.57	39.83	*1,034,787.88*	1,244,187.53	20.24	*16.05*	13.80	-14.02
Safflower	8,168.96	11,413.74	39.72	*88,702.51*	132,793.77	49.71	*10.86*	11.63	7.09
Sesame	337,505.41	239,532.34	-29.03	*2,447,833.59*	1,813,760.51	-25.90	*7.25*	7.57	4.41
Rape seed	45,167.81	45,836.92	1.48	*746,663.56*	731,103.90	-2.08	*16.53*	15.95	-3.51
Vegetables	**160,050.33**	**192,555.39**	20.31	***7,557,282.01***	**8,523,082.90**	12.78			
Lettuce	163.54	75.01	-54.13	*4,039.85*	*	*	*24.7*	*	*
Head cabbage	4,802.90	3,049.01	-36.52	*434,839.43*	232,247.44	-46.59	*90.54*	76.17	-15.87
Eth. Cabbage	31,783.56	34,791.05	9.46	*3,231,804.87*	3,709,951.99	14.80	*101.68*	106.64	4.88
Tomatoes	7,255.93	7,237.35	-0.26	*817,380.54*	555,142.79	-32.08	*112.65*	76.71	-31.90
Green peppers	6,970.87	10,588.52	51.90	*657,668.37*	855,477.90	30.08	*94.35*	80.79	-14.37
Red peppers	108,805.96	136,503.73	25.46	*2,394,540.56*	3,165,614.50	32.20	*22.01*	23.19	5.36
Swiss chard	267.57	310.70	16.12	*17,008.38*	3,290.41	-80.65	*63.57*	10.59	-83.34
Root crops	**199,899.80**	**203,958.15**	2.03	***16,710,299.57***	**36,298,616.52**	117.22			
Beetroot	2,484.96	1,795.25	-27.76	*245,430.49*	168,485.13	-31.35	*98.77*	93.85	-4.98
Carrot	*	1,132.94	*	*135,502.63*	51,046.70	-62.33	*	45.06	*
Onion	30,478.35	21,865.37	-28.26	*3,281,574.18*	2,191,886.02	-33.21	*107.67*	100.24	-6.90
Potatoes	59,508.67	74,934.57	25.92	*4,754,405.46*	8,633,477.92	81.59	*79.89*	115.21	44.21
Garlic	13,278.55	21,258.43	60.10	*1,239,614.63*	2,225,479.30	79.53	*93.35*	104.69	12.15
Taro /	39,695.59	41,337.62	4.14	*3,152,420.66*	11,177,733.55	254.58	*79.41*	270.40	240.51
Sweet potatoes	51,313.22	41,633.95	-18.86	*3,901,351.52*	11,850,507.89	203.75	*76.03*	284.64	274.38
Fruit crops	**61,472.74**	**61,972.60**	0.81	***5,393,387.63***	**4,793,360.64**	-11.13	***87.74***	**77.35**	-11.84
Avocados	9,023.91	8,938.24	-0.95	*730,968.04*	256,331.64	-64.93	*81*	28.68	-64.59
Bananas	35,869.31	36,012.19	0.40	*2,912,576.89*	3,025,022.32	3.86	*81.2*	84.00	3.45
Guavas	1,357.15	1,492.32	9.96	*22,149.99*	11,730.03	-47.04	*16.32*	7.86	-51.84
Lemons	894.36	754.23	-15.67	*81,602.96*	55,167.50	-32.40	*91.24*	73.14	-19.84
Mangoes	8,058.28	8,808.64	9.31	*727,528.60*	697,507.30	-4.13	*90.28*	79.18	-12.30
Oranges	3,609.67	2,999.21	-16.91	*487,504.78*	357,458.39	-26.68	*135.06*	119.18	-11.76
Papayas	2,496.41	2,752.08	10.24	*425,733.33*	386,943.15	-9.11	*170.54*	140.60	-17.56
Pineapples	163.66	215.69	31.79	*5,323.03*	*	*	*32.52*	*	*
Chat	**179,775.63**	**173,844.91**	-3.30	***1,807,264.64***	**1,830,612.51**	1.29	***10.05***	**10.53**	4.78
Coffee	**515,882.46**	**528,751.11**	2.49	***3,768,231.72***	**3,739,406.42**	-0.76	***7.3***	**7.07**	-3.15
Hops	**22,563.75**	**22,944.71**	1.69	***289,006.65***	**289,530.32**	0.18	***12.81***	**12.62**	-1.48
Sugar cane	**22,119.93**	**22,388.48**	1.21	***10,335,863.41***	**10,398,657.46**	0.61	***467.26***	**464.46**	-0.599

Enset	Number of Trees to be Harvested 2012/13	Expected Production in Quintals 2012/13			Expected Yield (Quintals/Tree) 2012/13		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	113,999,188	**10,936,627.60**	**12,985,122.73**	**461,280.87**	**0.10**	**0.11**	*

Table 4 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Tigray

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**979,980**	**877,506.12**	**15,463,990.11**	**17.62**
Cereals.....	**969,168**	**730,755.92**	**13,887,383.25**	
Teff.....	520,066	161,798.11	2,122,234.54	13.12
Barley.....	461,129	98,162.52	1,588,109.44	16.18
Wheat.....	421,465	111,846.34	2,052,724.49	18.35
Maize.....	642,713	69,026.20	1,611,595.43	23.35
Sorghum.....	467,234	208,390.45	5,051,383.77	24.24
Finger millet.....	289,604	78,663.67	1,391,749.88	17.69
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	*	*
Pulses.....	**459,963**	**61,633.99**	**836,908.59**	
Faba beans..... .	283,222	18,580.11	312,752.36	16.83
Field peas.....	62,000	6,306.76	85,514.63	13.56
Haricot beans.....	25,771	*	*	*
Chick-peas.....	77,083	11,604.22	145,310.21	12.52
Lentils.....	73,547	8,539.51	87,512.38	10.25
Grass Peas.....	68,913	12,734.96	175,614.72	13.79
Soya beans.....	*	*	*	*
Fenugreek.....	45,684	1,365.27	5,598.99	4.10
Gibto.....	-	-	-	-
Oilseeds.....	**235,128**	**85,116.21**	**739,698.27**	
Neug.....	41,585	6,341.53	59,371.86	9.36
Linseed.....	85,603	8,188.38	89,475.17	10.93
Groundnuts.....	*	*	*	*
Safflower.....	4,194	133.12	*	*
Sesame.....	114,369	69,505.94	579,331.95	8.33
Rape seed.....	4,347	*	*	*
Vegetables.....	**222,139**	**2,315.47**	**110,884.83**	
Lettuce.....	3,628	3.92	*	*
Head Cabbage.....	6,667	*	*	*
Ethiopian Cabbage.....	*	*	-	-
Tomatoes.....	16,812	352.33	*	*
Green peppers.....	78,047	464.89	38,635.16	83.11
Red peppers.....	130,961	1,334.59	36,375.76	27.26
Swiss chard.....	3,443	*	*	*
Root Crops.....	**120,980**	**2,283.78**	**68,117.22**	
Beetroot.....	*	*	*	*
Carrot.....	7,212	*	*	*
Onion.....	22,854	317.35	14,334.40	45.17
Potatoes.....	25,659	779.27	-	-
Garlic.....	88,267	1,020.44	50,126.98	49.12
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	-	-	-	-
Fruit Crops.....	**57,628**	**1,178.52**	*	*
Avocados.....	1,746	*	-	-
Bananas.....	9,309	139.41	4,280.90	30.71
Guavas.....	27,689	292.37	841.67	2.88
Lemons.....	11,217	66.34	1,463.80	22.07
Mangoes.....	5,230	118.20	*	*
Oranges.....	8,980	49.77	1,979.51	39.77
Papayas.....	19,652	*	*	*
Pineapples.....	-	-	-	-
Chat.....	*	*	-	-
Coffee.....	**11,597**	**158.27**	-	-
Hops.....	**146,435**	**2,006.09**	**72,709.62**	**36.24**
Sugar Cane.....	*	*	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 4.1. - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

North West Tigray

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**198,686**	**201,654.37**	**3,768,861.01**	**18.69**
Cereals.....	**197,971**	**179,541.84**	**3,519,351.69**	
Teff.....	114,888	43,269.41	555,411.83	12.84
Barley.....	11,953	724.95	*	*
Wheat.....	*	*	*	*
Maize.....	185,300	29,862.75	836,022.40	28.00
Sorghum.....	128,608	57,149.90	1,292,911.01	22.62
Finger millet.....	135,578	48,347.64	818,811.50	16.94
Oats/'Aja'.....	-	-	-	-
Rice.....	*	*	*	*
Pulses.....	**67,996**	**9,247.94**	**123,505.20**	
Faba beans..... .	39,017	3,246.98	45,733.48	14.08
Field peas.....	*	*	*	*
Haricot beans.....	5,346	*	*	*
Chick-peas.....	30,273	5,357.60	70,244.84	13.11
Lentils.....	*	-	-	-
Grass Peas.....	*	*	*	*
Soya beans.....	-	-	-	-
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**54,770**	**12,864.60**	**126,004.11**	
Neug.....	13,029	*	*	*
Linseed.....	11,286	1,039.34	9,177.26	8.83
Groundnuts.....	-	-	-	-
Safflower.....	*	*	*	*
Sesame.....	34,823	8,039.53	74,391.84	9.25
Rape seed.....	*	*	*	*
Vegetables.....	**92,954**	**937.13**	**60,479.75**	
Lettuce.....	-	-	-	-
Head Cabbage.....	-	-	-	-
Ethiopian Cabbage.....	-	-	-	-
Tomatoes.....	*	*	*	*
Green peppers.....	12,941	61.70	12,714.70	206.07
Red peppers.....	79,384	735.40	27,243.86	37.05
Swiss chard.....	-	-	-	-
Root Crops.....	**5,593**	*	*	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	*	*	*	*
Potatoes.....	-	-	-	-
Garlic.....	5,593	*	*	*
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	-	-	-	-
Fruit Crops.....	**14,550**	*	*	*
Avocados.....	*	*	-	-
Bananas.....	*	*	*	*
Guavas.....	*	*	*	*
Lemons.....	3,622	8.69	*	*
Mangoes.....	*	*	*	*
Oranges.....	*	*	*	*
Papayas.....	6,552	38.98	*	*
Pineapples.....	-	-	-	-
Chat.....	-	-	-	-
Coffee.....	*	*	-	-
Hops.....	**21,575**	**294.08**	**17,086.57**	**58.10**
Sugar Cane.....	-	-	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 4.2 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Central Tigray

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**292,145**	**218,246.53**	**3,315,585.27**	**15.19**
Cereals.....	**289,638**	**193,630.13**	**3,043,388.31**	
Teff.....	224,357	63,344.58	868,705.89	13.71
Barley.....	155,306	22,766.20	311,444.50	13.68
Wheat.....	139,094	33,454.40	585,217.85	17.49
Maize.....	227,758	22,767.17	430,020.95	18.89
Sorghum.....	140,489	38,502.41	653,694.19	16.98
Finger millet.....	81,107	12,769.93	194,304.92	15.22
Oats/'Aja'.....	*	*	-	-
Rice.....	-	-	-	-
Pulses.....	**173,433**	**19,292.31**	**224,222.40**	
Faba beans..... .	138,274	8,506.31	121,387.21	14.27
Field peas.....	11,847	831.92	10,975.02	13.19
Haricot beans.....	12,978	*	*	*
Chick-peas.....	21,065	2,222.12	21,115.22	9.50
Lentils.....	29,393	3,224.19	29,941.95	9.29
Grass Peas.....	13,226	1,965.76	21,535.67	10.96
Soya beans.....	-	-	-	-
Fenugreek.....	22,255	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**49,250**	**5,324.09**	**47,974.57**	
Neug.....	16,190	941.49	3,135.20	3.33
Linseed.....	30,139	2,672.54	30,932.19	11.57
Groundnuts.....	*	*	*	*
Safflower.....	*	*	-	-
Sesame.....	*	*	*	*
Rape seed.....	*	*	-	-
Vegetables.....	**66,037**	**435.38**	**28,188.13**	
Lettuce.....	*	*	*	*
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	*	*	-	-
Tomatoes.....	*	*	*	*
Green peppers.....	44,452	202.11	17,212.08	85.16
Red peppers.....	18,599	*	*	*
Swiss chard.....	*	*	-	-
Root Crops.....	**42,387**	**431.62**	**47,458.32**	
Beetroot.....	*	*	*	*
Carrot.....	*	*	*	*
Onion.....	6,528	*	*	*
Potatoes.....	2,980	*	-	-
Garlic.....	37,940	264.23	35,167.74	133.10
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	-	-	-	-
Fruit Crops.....	**11,202**	*	*	*
Avocados.....	-	-	-	-
Bananas.....	*	*	*	*
Guavas.....	3,744	*	*	*
Lemons.....	*	*	*	*
Mangoes.....	*	*	-	-
Oranges.....	1,824	*	*	*
Papayas.....	2,848	*	*	*
Pineapples.....	-	-	-	-
Chat.....	-	-	-	-
Coffee.....	*	*	-	-
Hops.....	**44,493**	*	*	*
Sugar Cane.....	-	-	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 4.3 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

East Tigray

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**155,310**	**89,746.91**	**1,436,680.32**	**16.01**
Cereals.....	**155,076**	**77,518.24**	**1,236,597.00**	
Teff.....	45,840	8,669.15	108,045.33	12.46
Barley.....	135,819	29,359.36	435,383.51	14.83
Wheat.....	129,482	28,647.70	503,977.57	17.59
Maize.....	63,383	3,713.01	70,870.89	19.09
Sorghum.....	23,730	2,943.22	*	*
Finger millet.....	29,703	4,178.62	53,121.36	12.71
Oats/'Aja'.....	*	*	-	-
Rice.....	-	-	-	-
Pulses.....	**91,199**	**11,457.43**	**193,933.17**	
Faba beans..... .	55,758	2,726.53	71,776.28	26.33
Field peas.....	29,291	2,534.81	35,720.88	14.09
Haricot beans.....	*	*	*	*
Chick-peas.....	9,774	*	19,640.23	*
Lentils.....	11,611	790.35	7,666.19	9.70
Grass Peas.....	22,022	3,870.28	58,416.42	15.09
Soya beans.....	*	*	-	-
Fenugreek.....	10,139	162.60	703.44	4.33
Gibto.....	-	-	-	-
Oilseeds.....	**16,718**	**771.24**	**6,150.15**	
Neug.....	*	*	*	*
Linseed.....	14,015	722.91	6,028.45	8.34
Groundnuts.....	-	-	-	-
Safflower.....	*	*	*	*
Sesame.....	-	-	-	-
Rape seed.....	*	*	-	-
Vegetables.....	**14,417**	**192.64**	**13,151.76**	
Lettuce.....	*	*	*	*
Head Cabbage.....	1,589	*	*	*
Ethiopian Cabbage.....	*	*	-	-
Tomatoes.....	3,436	44.95	*	*
Green peppers.....	9,541	77.45	5,530.72	71.41
Red peppers.....	*	*	*	*
Swiss chard.....	*	*	*	*
Root Crops.....	**20,075**	**484.84**	**9,944.00**	
Beetroot.....	-	-	-	-
Carrot.....	*	*	-	-
Onion.....	6,390	*	*	*
Potatoes.....	6,268	409.13	-	-
Garlic.....	10,430	28.72	4,327.29	150.67
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	-	-	-	-
Fruit Crops.....	**10,416**	**115.22**	**988.24**	**8.58**
Avocados.....	*	*	-	-
Bananas.....	1,057	*	*	*
Guavas.....	8,303	103.02	665.52	6.46
Lemons.....	*	*	*	*
Mangoes.....	*	*	-	-
Oranges.....	2,118	5.96	*	*
Papayas.....	*	*	*	*
Pineapples.....	-	-	-	-
Chat.....	*	*	-	-
Coffee.....	**1,572**	*	-	-
Hops.....	**35,859**	*	*	*
Sugar Cane.....	-	-	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 4.4 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

South Tigray

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**230,682**	**211,114.50**	**3,492,920.87**	**16.55**
Cereals.....	**226,495**	**186,396.55**	**3,179,983.71**	
Teff.....	119,141	41,618.97	520,805.50	12.51
Barley.....	153,174	44,428.61	804,621.08	18.11
Wheat.....	147,883	49,241.73	948,781.03	19.27
Maize.....	86,893	7,330.77	89,978.33	12.27
Sorghum.....	88,523	42,667.35	798,592.24	18.72
Finger millet.....	4,449	689.71	6,872.27	9.96
Oats/'Aja'.....	*	*	*	*
Rice.....	-	-	-	-
Pulses.....	**107,152**	**20,133.51**	**264,208.13**	
Faba beans..... .	37,823	3,453.72	*	*
Field peas.....	17,094	2,732.23	36,999.94	13.54
Haricot beans.....	*	*	*	*
Chick-peas.....	13,596	2,242.44	23,324.35	10.40
Lentils.....	30,273	4,430.78	48,304.96	10.90
Grass Peas.....	32,418	6,498.05	90,232.92	13.89
Soya beans.....	-	-	-	-
Fenugreek.....	13,006	279.59	2,220.34	7.94
Gibto.....	-	-	-	-
Oilseeds.....	**35,019**	**4,584.44**	**48,729.04**	
Neug.....	*	*	*	*
Linseed.....	29,414	3,735.38	42,935.69	11.49
Groundnuts.....	*	*	*	*
Safflower.....	*	*	-	-
Sesame.....	*	*	*	*
Rape seed.....	*	*	-	-
Vegetables.....	**21,741**	**480.93**	**-**	
Lettuce.....	*	*	-	-
Head Cabbage.....	*	*	-	-
Ethiopian Cabbage.....	*	*	-	-
Tomatoes.....	4,536	*	-	-
Green peppers.....	7,813	107.26	-	-
Red peppers.....	9,342	243.86	-	-
Swiss chard.....	*	*	-	-
Root Crops.....	**48,959**	**1,287.32**	**-**	
Beetroot.....	*	*	-	-
Carrot.....	*	*	-	-
Onion.....	8,572	*	-	-
Potatoes.....	16,411	*	-	-
Garlic.....	30,787	652.02	-	-
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	-	-	-	-
Fruit Crops.....	**14,705**	**175.16**	**-**	**-**
Avocados.....	*	*	-	-
Bananas.....	*	*	-	-
Guavas.....	6,671	*	-	-
Lemons.....	1,636	*	-	-
Mangoes.....	*	*	-	-
Oranges.....	*	*	-	-
Papayas.....	5,242	*	-	-
Pineapples.....	-	-	-	-
Chat.....	*	*	-	-
Coffee.....	**4,363**	*	-	-
Hops.....	**35,788**	**386.76**	-	-
Sugar Cane.....	*	*	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 4.5 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Western Tigray

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**103,157**	**156,743.81**	**3,449,942.63**	**22.01**
Cereals.....	**99,988**	**93,669.16**	**2,908,062.54**	
Teff.....	15,840	4,895.99	69,265.98	14.15
Barley.....	*	*	*	*
Wheat.....	*	*	*	*
Maize.....	79,379	5,352.51	184,702.85	34.51
Sorghum.....	85,884	67,127.58	2,240,988.00	33.38
Finger millet.....	38,766	12,677.77	318,639.82	25.13
Oats/'Aja'.....	-	-	-	-
Rice.....	*	*	*	*
Pulses.....	**20,184**	**1,502.81**	**31,039.69**	
Faba beans..... .	12,350	646.57	12,626.35	19.53
Field peas.....	*	*	*	*
Haricot beans.....	*	*	2,155.85	*
Chick-peas.....	2,375	*	*	*
Lentils.....	*	*	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	*	*
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**79,371**	**61,571.84**	**510,840.40**	
Neug.....	9,994	2,093.92	21,431.25	10.23
Linseed.....	748	*	*	*
Groundnuts.....	-	-	-	-
Safflower.....	*	*	-	-
Sesame.....	71,135	59,422.87	489,007.56	8.23
Rape seed.....	*	*	-	-
Vegetables.....	**26,990**	**269.40**	**9,065.18**	
Lettuce.....	*	*	-	-
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	-	-	-	-
Tomatoes.....	2,219	*	-	-
Green peppers.....	3,300	16.38	3,177.66	194.00
Red peppers.....	23,086	218.14	5,874.59	26.93
Swiss chard.....	-	-	-	-
Root Crops.....	*	*	*	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	*	*	*	*
Potatoes.....	-	-	-	-
Garlic.....	*	*	*	*
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	-	-	-	-
Fruit Crops.....	**6,755**	*	*	*
Avocados.....	-	-	-	-
Bananas.....	1,919	77.64	4,170.49	53.72
Guavas.....	2,343	*	*	*
Lemons.....	3,081	16.63	759.78	45.69
Mangoes.....	*	*	*	*
Oranges.....	*	*	*	*
Papayas.....	3,592	*	*	*
Pineapples.....	-	-	-	-
Chat.....	*	*	-	-
Coffee.....	*	*	-	-
Hops.....	**8,720**	**184.84**	*	*
Sugar Cane.....	-	-	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 5 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Afar Region

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**6,300**	**3,754.37**	**195,769.21**	**52.14**
Cereals.....	**6,300**	**3,754.37**	**195,769.21**	
Teff.....	-	-	-	-
Barley.....	*	*	-	-
Wheat.....	*	*	-	-
Maize.....	5,569	3,346.35	188,482.63	56.32
Sorghum.....	*	*	*	*
Finger millet.....	-	-	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	**-**	**-**	**-**	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	-	-	-	-
Chick-peas.....	-	-	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**-**	**-**	**-**	
Neug.....	-	-	-	-
Linseed.....	-	-	-	-
Groundnuts.....	-	-	-	-
Safflower.....	-	-	-	-
Sesame.....	-	-	-	-
Rape seed.....	-	-	-	-
Vegetables.....	**2,300**	**152.36**	**-**	
Lettuce.....	-	-	-	-
Head Cabbage.....	-	-	-	-
Ethiopian Cabbage.....	-	-	-	-
Tomatoes.....	607	29.31	-	-
Green peppers.....	*	*	-	-
Red peppers.....	661	*	-	-
Swiss chard.....	-	-	-	-
Root Crops.....	*	*	**-**	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	*	*	-	-
Potatoes.....	-	-	-	-
Garlic.....	*	*	-	-
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	-	-	-	-
Fruit Crops.....	**1,480**	**27.01**	**-**	**-**
Avocados.....	-	-	-	-
Bananas.....	*	*	-	-
Guavas.....	*	*	-	-
Lemons.....	*	*	-	-
Mangoes.....	689	*	-	-
Oranges.....	-	-	-	-
Papayas.....	530	*	-	-
Pineapples.....	-	-	-	-
Chat.....	**-**	**-**	**-**	**-**
Coffee.....	**-**	**-**	**-**	**-**
Hops.....	**-**	**-**	**-**	**-**
Sugar Cane.....	**-**	**-**	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 5.1 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Zone 1

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**5,700**	**3,505.36**	**195,769.21**	**55.85**
Cereals.....	**5,700**	**3,505.36**	**195,769.21**	
Teff.....	-	-	-	-
Barley.....	*	*	-	-
Wheat.....	-	-	-	-
Maize.....	5,431	3,332.55	188,482.63	56.56
Sorghum.....	*	*	*	*
Finger millet.....	-	-	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	**-**	**-**	**-**	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	-	-	-	-
Chick-peas.....	-	-	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**-**	**-**	**-**	
Neug.....	-	-	-	-
Linseed.....	-	-	-	-
Groundnuts.....	-	-	-	-
Safflower.....	-	-	-	-
Sesame.....	-	-	-	-
Rape seed.....	-	-	-	-
Vegetables.....	**2,300**	**152.36**	**-**	
Lettuce.....	-	-	-	-
Head Cabbage.....	-	-	-	-
Ethiopian Cabbage.....	-	-	-	-
Tomatoes.....	607	29.31	-	-
Green peppers.....	*	*	-	-
Red peppers.....	661	*	-	-
Swiss chard.....	-	-	-	-
Root Crops.....	*****	*****	**-**	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	*	*	-	-
Potatoes.....	-	-	-	-
Garlic.....	*	*	-	-
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	-	-	-	-
Fruit Crops.....	**1,094**	**14.40**	**-**	**-**
Avocados.....	-	-	-	-
Bananas.....	*	*	-	-
Guavas.....	*	*	-	-
Lemons.....	*	*	-	-
Mangoes.....	612	*	-	-
Oranges.....	-	-	-	-
Papayas.....	453	*	-	-
Pineapples.....	-	-	-	-
Chat.....	**-**	**-**	**-**	**-**
Coffee.....	**-**	**-**	**-**	**-**
Hops.....	**-**	**-**	**-**	**-**
Sugar Cane.....	**-**	**-**	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 5.2 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Zone 3

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	*	*	-	-
Cereals.....	*	*	-	
Teff.....	-	-	-	-
Barley.....	-	-	-	-
Wheat.....	*	*	-	-
Maize.....	*	*	-	-
Sorghum.....	-	-	-	-
Finger millet.....	-	-	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	-	-	-	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	-	-	-	-
Chick-peas.....	-	-	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	-	-	-	-
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.....	-	-	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Amhara Region

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**4,269,420**	**4,366,386.09**	**73,122,044.45**	**16.75**
Cereals.....	**4,189,189**	**3,254,156.12**	**59,051,697.91**	
Teff.....	2,505,207	1,090,139.50	15,281,977.33	14.02
Barley.....	1,653,421	388,113.19	5,905,028.22	15.21
Wheat.....	1,708,211	498,192.03	8,885,685.80	17.84
Maize.....	2,652,933	434,641.83	12,629,728.51	29.06
Sorghum.....	1,311,310	578,276.40	11,227,669.52	19.42
Finger millet.....	716,863	226,547.40	4,076,438.95	17.99
Oats/'Aja'.....	63,150	3,476.78	42,941.95	12.35
Rice.....	76,555	34,768.99	*	*
Pulses.....	**2,887,948**	**821,900.48**	**11,653,125.21**	
Faba beans..... .	1,757,413	245,066.27	3,717,380.77	15.17
Field peas.....	777,590	96,707.67	1,156,329.90	11.96
Haricot beans.....	570,422	96,416.68	1,122,650.02	11.64
Chick-peas.....	638,573	130,381.56	2,250,806.35	17.26
Lentils.....	547,706	77,368.16	950,400.67	12.28
Grass Peas.....	585,220	124,614.92	1,902,017.86	15.26
Soya beans.....	13,705	*	*	*
Fenugreek.....	334,424	15,435.63	136,992.47	8.88
Gibto.....	166,974	32,824.40	368,645.35	11.23
Oilseeds.....	**1,763,945**	**290,329.49**	**2,417,221.33**	
Neug.....	502,884	97,522.24	756,396.86	7.76
Linseed.....	535,230	43,778.54	273,636.77	6.25
Groundnuts.....	42,042	3,817.60	44,452.91	11.64
Safflower.....	170,091	8,660.32	93,421.76	10.79
Sesame.....	326,631	107,596.44	765,395.78	7.11
Rape seed.....	678,769	28,954.35	483,917.25	16.71
Vegetables.....	**1,741,716**	**54,364.37**	**1,308,635.80**	
Lettuce.....	15,596	23.68	*	*
Head Cabbage.....	114,554	578.02	61,794.66	106.91
Ethiopian Cabbage.....	285,379	976.58	92,346.74	94.56
Tomatoes.....	70,048	657.37	53,250.56	81.01
Green peppers.....	223,605	1,508.06	120,174.25	79.69
Red peppers.....	1,198,196	50,585.59	979,019.24	19.35
Swiss chard.....	29,372	35.06	1,697.44	48.42
Root Crops.....	**1,930,480**	**41,855.61**	**5,764,217.67**	
Beetroot.....	61,785	200.17	15,049.02	75.18
Carrot.....	28,279	147.09	7,744.13	52.65
Onion.....	283,499	7,917.65	999,725.47	126.27
Potatoes.....	587,414	22,513.17	3,488,358.13	154.95
Garlic.....	1,485,750	10,362.70	1,153,393.30	111.30
Taro/'Godere'.....	*	*	*	*
Sweet potatoes.....	33,831	714.22	99,751.73	139.67
Fruit Crops.....	**349,404**	**2,881.41**	**209,939.34**	**72.86**
Avocados.....	22,859	58.82	-	-
Bananas.....	111,700	689.36	14,966.16	21.71
Guavas.....	57,110	331.57	3,304.31	9.97
Lemons.....	61,242	307.80	*	*
Mangoes.....	60,552	246.85	10,408.67	42.17
Oranges.....	111,500	937.48	128,315.07	136.87
Papayas.....	82,500	309.53	12,888.74	41.64
Pineapples.....	-	-	-	-
Chat.....	**233,936**	**8,355.76**	**50,636.24**	**6.06**
Coffee.....	**359,911**	**7,787.92**	**20,540.10**	**2.64**
Hops.....	**1,230,975**	**15,520.84**	**135,462.53**	**8.73**
Sugar Cane.....	**87,965**	**2,331.45**	**1,780,468.00**	**763.67**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6.1 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

North Gondar

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**680,553**	**856,632.15**	**15,199,711.88**	**17.74**
Cereals.....	**663,812**	**625,371.71**	**12,324,447.58**	
Teff.....	325,892	131,517.49	2,069,414.62	15.73
Barley.....	233,973	52,697.30	942,047.34	17.88
Wheat.....	205,412	75,420.52	1,477,420.87	19.59
Maize.....	475,587	74,966.89	2,060,729.49	27.49
Sorghum.....	395,322	220,769.89	4,281,907.95	19.40
Finger millet.....	228,726	67,495.63	1,432,630.98	21.23
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	*	*
Pulses.....	**361,552**	**116,501.71**	**1,996,041.38**	
Faba beans..... .	228,271	33,027.95	540,221.95	16.36
Field peas.....	86,147	13,580.89	195,707.97	14.41
Haricot beans.....	32,870	*	*	*
Chick-peas.....	145,340	40,013.08	825,741.27	20.64
Lentils.....	61,472	12,080.09	200,000.97	16.56
Grass Peas.....	52,596	10,304.11	159,973.16	15.53
Soya beans.....	-	-	-	-
Fenugreek.....	44,293	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**336,588**	**114,758.73**	**879,222.91**	
Neug.....	84,625	20,224.88	206,095.24	10.19
Linseed.....	101,892	8,699.48	72,222.61	8.30
Groundnuts.....	*	*	*	*
Safflower.....	38,149	*	*	*
Sesame.....	143,795	81,908.44	*	*
Rape seed.....	50,663	1,529.42	26,380.82	17.25
Vegetables.....	**329,125**	**8,465.95**	**185,897.15**	
Lettuce.....	-	-	-	-
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	*	102.81	11,429.92	111.18
Tomatoes.....	15,985	203.09	*	*
Green peppers.....	34,196	*	*	*
Red peppers.....	270,653	7,685.72	119,851.17	15.59
Swiss chard.....	*	*	-	-
Root Crops.....	**295,189**	**7,508.54**	**965,954.79**	
Beetroot.....	-	-	-	-
Carrot.....	*	*	*	*
Onion.....	39,446	1,056.23	*	*
Potatoes.....	125,989	3,783.23	541,002.18	143.00
Garlic.....	233,391	2,568.68	306,655.10	119.38
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	*	*
Fruit Crops.....	**31,803**	*	*	*
Avocados.....	-	-	-	-
Bananas.....	5,148	*	*	*
Guavas.....	*	*	-	-
Lemons.....	*	*	*	*
Mangoes.....	*	*	-	-
Oranges.....	*	*	-	-
Papayas.....	17,417	37.63	*	*
Pineapples.....	-	-	-	-
Chat.....	*	*	*	*
Coffee.....	**26,420**	*	*	*
Hops.....	**113,493**	**4,088.08**	**22,779.51**	**5.51**
Sugar Cane.....	-	-	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6.2 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

South Gondar

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**515,135**	**519,815.68**	**8,311,013.96**	**15.99**
Cereals.....	**507,864**	**370,138.47**	**6,450,970.22**	
Teff.....	358,918	142,866.18	2,042,504.28	14.30
Barley.....	196,145	39,662.43	593,204.95	14.96
Wheat.....	272,920	76,761.43	1,420,527.41	18.51
Maize.....	315,203	36,417.32	860,656.98	23.63
Sorghum.....	71,712	16,121.87	*	*
Finger millet.....	98,519	26,695.71	333,746.79	12.50
Oats/'Aja'.....	6,547	*	2,294.17	*
Rice.....	58,498	*	*	*
Pulses.....	**406,099**	**118,233.94**	**1,585,573.06**	
Faba beans..... .	217,620	21,322.47	269,785.95	12.65
Field peas.....	109,188	13,306.44	146,686.44	11.02
Haricot beans.....	61,166	12,836.82	164,123.96	12.79
Chick-peas.....	107,012	20,052.17	293,870.36	14.66
Lentils.....	58,070	6,025.43	58,657.00	9.73
Grass Peas.....	149,407	36,331.52	564,993.86	15.55
Soya beans.....	-	-	-	-
Fenugreek.....	18,155	380.30	3,401.88	8.95
Gibto.....	47,756	7,978.79	*	*
Oilseeds.....	**234,606**	**31,443.27**	**274,470.68**	
Neug.....	93,486	17,324.19	152,937.75	8.83
Linseed.....	94,781	7,975.90	45,584.66	5.72
Groundnuts.....	-	-	-	-
Safflower.....	15,446	*	*	*
Sesame.....	*	*	*	*
Rape seed.....	104,564	5,044.65	66,298.80	13.14
Vegetables.....	**132,180**	**2,687.99**	**76,443.88**	
Lettuce.....	*	*	-	-
Head Cabbage.....	6,181	10.35	*	*
Ethiopian Cabbage.....	10,398	49.29	*	*
Tomatoes.....	2,895	*	-	-
Green peppers.....	12,540	*	*	*
Red peppers.....	101,394	2,567.31	66,747.57	26.00
Swiss chard.....	*	*	*	*
Root Crops.....	**300,541**	**8,643.32**	**1,204,621.52**	
Beetroot.....	*	*	-	-
Carrot.....	*	*	-	-
Onion.....	*	*	-	-
Potatoes.....	132,189	7,664.19	1,095,978.62	143.00
Garlic.....	241,919	931.89	106,681.39	114.48
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	*	*
Fruit Crops.....	**20,835**	*	*	*
Avocados.....	*	*	-	-
Bananas.....	*	*	*	*
Guavas.....	*	*	-	-
Lemons.....	*	*	-	-
Mangoes.....	*	*	-	-
Oranges.....	*	*	*	*
Papayas.....	*	20.98	*	*
Pineapples.....	-	-	-	-
Chat.....	**11,629**	**130.80**	*	*
Coffee.....	**6,981**	*	*	*
Hops.....	**176,914**	**1,265.43**	**10,641.33**	**8.41**
Sugar Cane.....	*	*	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6.3 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

North Wolo

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**370,010**	**274,466.17**	**3,870,682.17**	**14.10**
Cereals.....	**366,101**	**200,481.18**	**3,003,862.94**	
Teff.....	208,862	62,644.41	807,913.51	12.90
Barley.....	210,071	48,503.88	663,123.58	13.67
Wheat.....	155,720	30,771.17	420,759.86	13.67
Maize.....	152,802	5,931.62	94,256.84	15.89
Sorghum.....	151,906	49,838.85	979,868.11	19.66
Finger millet.....	28,223	2,022.50	30,523.42	15.09
Oats/'Aja'.....	12,516	768.76	7,417.62	9.65
Rice.....	-	-	-	-
Pulses.....	**247,573**	**63,541.08**	**794,838.87**	
Faba beans..... .	134,889	19,377.73	298,600.62	15.41
Field peas.....	100,038	11,187.16	124,682.03	11.15
Haricot beans.....	43,487	7,139.57	96,660.02	13.54
Chick-peas.....	56,731	8,778.79	110,487.45	12.59
Lentils.....	93,132	13,535.38	121,476.69	8.97
Grass Peas.....	21,162	1,899.05	28,396.84	14.95
Soya beans.....	-	-	-	-
Fenugreek.....	42,451	1,602.71	*	*
Gibto.....	*	*	-	-
Oilseeds.....	**118,993**	**10,443.90**	**71,980.35**	
Neug.....	18,663	977.80	5,812.96	5.94
Linseed.....	83,476	7,836.05	50,835.07	6.49
Groundnuts.....	-	-	-	-
Safflower.....	20,662	773.95	7,984.60	10.32
Sesame.....	12,215	849.43	7,281.82	8.57
Rape seed.....	*	*	*	*
Vegetables.....	**148,049**	**1,333.38**	**65,189.90**	
Lettuce.....	*	*	-	-
Head Cabbage.....	7,931	52.13	3,953.58	75.84
Ethiopian Cabbage.....	62,337	147.68	14,116.14	95.59
Tomatoes.....	5,144	*	*	*
Green peppers.....	26,459	*	*	*
Red peppers.....	57,194	740.79	14,158.38	19.11
Swiss chard.....	6,476	7.44	-	-
Root Crops.....	**141,379**	**1,910.43**	**278,699.20**	
Beetroot.....	*	*	-	-
Carrot.....	*	*	*	*
Onion.....	21,546	505.98	71,551.05	141.41
Potatoes.....	45,816	637.10	127,420.06	200.00
Garlic.....	103,546	710.02	72,298.11	101.83
Taro/'Godere'.....	*	*	*	*
Sweet potatoes.....	2,494	*	*	*
Fruit Crops.....	**41,061**	**280.44**	*	*
Avocados.....	*	*	-	-
Bananas.....	19,198	59.34	1,824.90	30.75
Guavas.....	13,238	*	1,661.42	*
Lemons.....	3,068	*	*	*
Mangoes.....	5,671	*	*	*
Oranges.....	16,626	*	*	*
Papayas.....	6,678	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**8,938**	*	**34.25**	*
Coffee.....	**42,217**	**454.52**	**1,889.42**	**4.61**
Hops.....	**79,540**	**524.93**	**4,756.41**	**9.06**
Sugar Cane.....	**8,843**	*	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6.4 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

South Wolo

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**659,890**	**447,118.48**	**7,090,758.25**	**15.86**
Cereals.....	**642,279**	**323,500.13**	**5,334,122.67**	
Teff.....	344,082	117,623.88	1,574,871.33	13.39
Barley.....	281,753	46,794.93	730,040.36	15.60
Wheat.....	314,449	82,361.90	1,305,954.04	15.86
Maize.....	275,003	15,360.79	370,277.58	24.11
Sorghum.....	228,804	58,474.06	1,296,461.85	22.17
Finger millet.....	28,809	1,636.62	40,089.14	24.50
Oats/'Aja'.....	31,332	1,247.94	16,428.37	13.16
Rice.....	-	-	-	-
Pulses.....	**504,677**	**114,581.75**	**1,694,146.26**	
Faba beans..... .	285,333	29,909.20	473,861.89	15.84
Field peas.....	134,246	12,786.57	190,421.94	14.89
Haricot beans.....	129,491	13,589.58	162,303.53	11.94
Chick-peas.....	126,468	16,820.59	275,929.02	16.40
Lentils.....	154,888	14,025.04	167,770.28	11.96
Grass Peas.....	146,671	22,605.36	384,647.40	17.02
Soya beans.....	-	-	-	-
Fenugreek.....	92,480	4,840.58	39,212.22	8.10
Gibto.....	*	*	-	-
Oilseeds.....	**182,768**	**9,036.61**	**62,489.32**	
Neug.....	61,223	2,945.59	22,821.34	7.75
Linseed.....	98,244	4,912.28	29,351.08	5.98
Groundnuts.....	*	*	*	*
Safflower.....	*	*	*	*
Sesame.....	19,391	729.18	*	*
Rape seed.....	20,876	150.49	722.30	4.80
Vegetables.....	**247,691**	**1,838.11**	**66,361.00**	
Lettuce.....	7,970	6.15	*	*
Head Cabbage.....	10,204	25.93	1,516.09	58.47
Ethiopian Cabbage.....	81,634	172.04	16,866.87	98.04
Tomatoes.....	15,927	*	*	*
Green peppers.....	26,473	*	*	*
Red peppers.....	128,232	1,263.78	30,224.77	23.92
Swiss chard.....	8,949	11.79	*	*
Root Crops.....	**230,073**	**2,081.32**	**270,763.07**	
Beetroot.....	3,738	*	*	*
Carrot.....	8,290	*	*	*
Onion.....	21,018	*	*	*
Potatoes.....	44,064	502.04	100,407.20	200.00
Garlic.....	189,803	1,206.56	125,397.38	103.93
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	5,081	*	*	*
Fruit Crops.....	**70,952**	**991.54**	*	*
Avocados.....	2,959	*	-	-
Bananas.....	10,875	*	*	*
Guavas.....	21,695	*	*	*
Lemons.....	*	*	*	*
Mangoes.....	*	*	*	*
Oranges.....	45,252	544.21	*	*
Papayas.....	12,594	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**96,767**	**3,651.99**	**31,203.91**	**8.54**
Coffee.....	**94,622**	**2,123.46**	*	*
Hops.....	**90,534**	**394.53**	**5,887.65**	**14.92**
Sugar Cane.....	*	*	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6.5 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

North Shewa

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**476,428**	**553,223.21**	**9,104,205.09**	**16.46**
Cereals.....	**459,950**	**420,169.97**	**7,159,742.68**	
Teff.....	283,823	144,469.09	1,949,148.72	13.49
Barley.....	209,825	70,158.19	1,154,704.70	16.46
Wheat.....	199,495	68,230.56	1,262,577.72	18.50
Maize.....	188,662	8,867.15	210,951.24	23.79
Sorghum.....	212,756	128,240.06	2,580,878.73	20.13
Finger millet.....	*	*	-	-
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	-	-
Pulses.....	**335,986**	**117,406.42**	**1,822,809.86**	
Faba beans..... .	224,523	44,475.87	746,183.74	16.78
Field peas.....	89,269	12,427.93	138,195.85	11.12
Haricot beans.....	69,784	7,553.47	101,256.35	13.41
Chick-peas.....	85,970	20,582.58	402,197.46	19.54
Lentils.....	133,099	26,073.15	325,743.39	12.49
Grass Peas.....	25,084	3,769.12	80,654.48	21.40
Soya beans.....	*	*	-	-
Fenugreek.....	51,427	2,519.32	28,578.59	11.34
Gibto.....	*	*	-	-
Oilseeds.....	**151,953**	**15,646.82**	**121,652.55**	
Neug.....	34,314	1,608.02	8,459.00	5.26
Linseed.....	71,764	7,100.21	36,216.20	5.10
Groundnuts.....	*	*	-	-
Safflower.....	38,051	2,872.77	36,532.57	12.72
Sesame.....	52,357	3,897.12	38,608.14	9.91
Rape seed.....	25,029	167.62	*	*
Vegetables.....	**182,055**	**1,348.99**	**70,127.84**	
Lettuce.....	*	*	-	-
Head Cabbage.....	4,980	*	*	*
Ethiopian Cabbage.....	72,739	177.02	17,604.03	99.45
Tomatoes.....	16,049	*	*	*
Green peppers.....	23,173	*	*	*
Red peppers.....	91,518	847.12	19,102.36	22.55
Swiss chard.....	3,727	3.85	*	*
Root Crops.....	**266,580**	**6,791.99**	**926,192.06**	
Beetroot.....	4,640	*	*	*
Carrot.....	4,869	*	*	*
Onion.....	135,854	*	*	*
Potatoes.....	41,429	327.09	65,418.01	200.00
Garlic.....	183,205	1,539.12	154,645.13	100.48
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	*	*
Fruit Crops.....	**47,827**	**299.23**	**16,715.47**	**55.86**
Avocados.....	5,176	*	-	-
Bananas.....	13,339	86.49	1,326.65	15.34
Guavas.....	*	*	-	-
Lemons.....	10,421	*	*	*
Mangoes.....	5,750	*	*	*
Oranges.....	18,441	100.15	11,755.56	117.38
Papayas.....	9,106	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**24,573**	*	*	*
Coffee.....	**49,456**	**659.75**	**517.72**	**0.78**
Hops.....	**122,029**	**1,752.28**	**9,239.34**	**5.27**
Sugar Cane.....	**11,980**	*	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6.6 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

East Gojjam

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**548,455**	**642,632.38**	**10,352,526.81**	**16.11**
Cereals.....	**541,025**	**482,810.66**	**8,233,912.47**	
Teff.....	385,470	240,143.29	3,622,409.88	15.08
Barley.....	235,422	66,342.75	987,820.33	14.89
Wheat.....	319,111	108,274.10	2,017,825.19	18.64
Maize.....	353,956	45,100.71	1,248,634.30	27.69
Sorghum.....	69,814	22,224.42	*	*
Finger millet.....	*	*	-	-
Oats/'Aja'.....	*	499.58	6,808.06	13.63
Rice.....	*	*	-	-
Pulses.....	**435,784**	**136,364.04**	**1,911,541.91**	
Faba beans..... .	319,681	49,895.37	734,663.02	14.72
Field peas.....	109,513	14,338.60	174,733.21	12.19
Haricot beans.....	78,784	22,378.33	250,870.10	11.21
Chick-peas.....	51,800	9,984.90	158,203.36	15.84
Lentils.....	21,219	2,449.77	43,148.82	17.61
Grass Peas.....	126,079	31,312.66	489,006.12	15.62
Soya beans.....	3,662	*	*	*
Fenugreek.....	44,884	2,627.15	19,300.66	7.35
Gibto.....	16,225	3,117.59	39,181.52	12.57
Oilseeds.....	**189,706**	**23,457.68**	**207,072.43**	
Neug.....	73,446	12,020.45	119,784.60	9.97
Linseed.....	31,304	3,972.94	18,902.33	4.76
Groundnuts.....	*	*	*	*
Safflower.....	*	*	*	*
Sesame.....	*	*	*	*
Rape seed.....	115,971	4,997.59	49,550.48	9.91
Vegetables.....	**172,278**	**1,682.98**	**96,711.06**	
Lettuce.....	*	*	*	*
Head Cabbage.....	42,259	181.90	22,485.89	123.62
Ethiopian Cabbage.....	4,692	50.59	*	*
Tomatoes.....	5,400	*	*	*
Green peppers.....	77,078	336.20	29,504.55	87.76
Red peppers.....	70,419	1,101.50	41,078.63	37.29
Swiss chard.....	*	*	-	-
Root Crops.....	**265,981**	**7,657.99**	**1,026,307.40**	
Beetroot.....	40,009	156.72	12,007.08	76.61
Carrot.....	7,955	38.21	*	*
Onion.....	33,679	494.88	51,196.44	103.45
Potatoes.....	83,289	5,019.00	717,716.65	143.00
Garlic.....	188,437	1,848.80	230,894.34	124.89
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	*	*
Fruit Crops.....	**14,491**	**78.06**	*	*
Avocados.....	*	*	-	-
Bananas.....	7,445	*	*	*
Guavas.....	*	*	*	*
Lemons.....	*	*	*	*
Mangoes.....	*	*	-	-
Oranges.....	4,778	16.10	*	*
Papayas.....	*	*	-	-
Pineapples.....	-	-	-	-
Chat.....	**6,801**	**32.01**	*	*
Coffee.....	**23,931**	**230.38**	**223.18**	**0.97**
Hops.....	**278,397**	**4,098.47**	**42,509.71**	**10.37**
Sugar Cane.....	**7,280**	**47.13**	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6.7 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

West Gojjam

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**549,474**	**610,479.98**	**11,388,560.43**	**18.66**
Cereals.....	**543,758**	**470,253.77**	**9,741,191.33**	
Teff.....	329,894	141,558.11	1,844,120.24	13.03
Barley.....	149,500	34,022.81	501,295.30	14.73
Wheat.....	150,254	35,203.49	623,781.67	17.72
Maize.....	520,721	173,343.73	5,585,301.29	32.22
Sorghum.....	*	*	*	*
Finger millet.....	213,832	75,081.75	1,049,769.42	13.98
Oats/'Aja'.....	-	-	-	-
Rice.....	*	*	*	*
Pulses.....	**341,487**	**95,494.38**	**1,183,736.91**	
Faba beans..... .	243,280	31,790.14	454,780.22	14.31
Field peas.....	82,407	10,328.43	92,596.78	8.97
Haricot beans.....	86,329	19,451.90	203,793.49	10.48
Chick-peas.....	41,396	8,419.01	147,169.53	17.48
Lentils.....	*	*	-	-
Grass Peas.....	63,830	18,376.65	194,296.63	10.57
Soya beans.....	-	-	-	-
Fenugreek.....	13,269	67.99	*	*
Gibto.....	52,592	6,974.38	90,757.18	13.01
Oilseeds.....	**317,872**	**44,731.83**	**463,632.19**	
Neug.....	89,344	24,379.81	168,776.16	6.92
Linseed.....	19,419	1,672.19	8,891.49	5.32
Groundnuts.....	*	*	*	*
Safflower.....	4,284	54.60	*	*
Sesame.....	*	*	*	*
Rape seed.....	263,911	12,934.55	238,812.78	18.46
Vegetables.....	**371,989**	**22,244.58**	**432,850.70**	
Lettuce.....	*	*	-	-
Head Cabbage.....	27,917	101.97	*	*
Ethiopian Cabbage.....	*	*	*	*
Tomatoes.....	*	*	-	-
Green peppers.....	*	*	*	*
Red peppers.....	359,498	22,120.44	420,025.89	18.99
Swiss chard.....	-	-	-	-
Root Crops.....	**273,917**	**3,154.43**	**399,694.17**	
Beetroot.....	9,678	*	*	*
Carrot.....	*	*	-	-
Onion.....	18,072	*	*	*
Potatoes.....	44,256	1,537.72	219,894.38	143.00
Garlic.....	242,685	1,094.38	114,829.41	104.93
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	3,762	*	*	*
Fruit Crops.....	**53,597**	**254.59**	*	*
Avocados.....	5,296	*	-	-
Bananas.....	26,234	*	*	*
Guavas.....	4,350	*	*	*
Lemons.....	12,927	30.99	*	*
Mangoes.....	15,873	40.53	*	*
Oranges.....	4,621	*	-	-
Papayas.....	10,956	16.44	*	*
Pineapples.....	-	-	-	-
Chat.....	**49,502**	**1,134.35**	**9,806.96**	**8.65**
Coffee.....	**57,050**	*	*	*
Hops.....	**275,101**	**2,855.30**	**37,570.72**	**13.16**
Sugar Cane.....	**21,004**	*	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6.8 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Waghemra

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**106,203**	**115,137.13**	**1,461,016.44**	**12.69**
Cereals.....	**105,731**	**85,350.64**	**1,151,350.98**	
Teff.....	78,686	27,829.54	325,950.65	11.71
Barley.....	63,911	16,802.98	162,824.04	9.69
Wheat.....	33,527	7,022.98	97,041.14	13.82
Maize.....	65,448	2,973.86	43,536.42	14.64
Sorghum.....	65,982	30,598.36	520,613.05	17.01
Finger millet.....	861	*	*	*
Oats/'Aja'.....	*	*	-	-
Rice.....	-	-	-	-
Pulses.....	**82,456**	**21,171.37**	**236,831.21**	
Faba beans..... .	45,948	8,491.70	99,245.62	11.69
Field peas.....	26,746	4,793.32	55,600.41	11.60
Haricot beans.....	27,912	4,129.57	42,619.16	10.32
Chick-peas.....	5,073	718.03	5,934.94	8.27
Lentils.....	22,820	2,974.27	32,975.30	11.09
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	6,585	60.43	455.79	7.54
Gibto.....	*	*	-	-
Oilseeds.....	**52,889**	**8,615.11**	**72,834.25**	
Neug.....	5,409	317.30	1,591.31	5.02
Linseed.....	24,481	1,292.14	9,984.86	7.73
Groundnuts.....	-	-	-	-
Safflower.....	13,687	648.47	6,150.96	9.49
Sesame.....	24,087	6,296.36	*	*
Rape seed.....	*	*	-	-
Vegetables.....	**6,568**	*	**1,226.31**	
Lettuce.....	*	*	*	*
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	*	*	*	*
Tomatoes.....	*	*	-	-
Green peppers.....	2,836	4.55	342.04	75.17
Red peppers.....	*	*	*	*
Swiss chard.....	*	*	-	-
Root Crops.....	**16,073**	**79.19**	**13,293.89**	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	*	*	*	*
Potatoes.....	8,943	52.59	10,517.49	199.99
Garlic.....	12,199	23.68	2,229.71	94.16
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	*	*
Fruit Crops.....	**1,750**	*	*	*
Avocados.....	-	-	-	-
Bananas.....	1,071	*	*	*
Guavas.....	*	*	-	-
Lemons.....	*	*	*	*
Mangoes.....	*	*	*	*
Oranges.....	*	*	*	*
Papayas.....	1,042	*	*	*
Pineapples.....	-	-	-	-
Chat.....	*	*	-	-
Coffee.....	**1,195**	*	-	-
Hops.....	**941**	**0.97**	*	*
Sugar Cane.....	**1,321**	*	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6.9 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Awi

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**266,474**	**284,018.62**	**5,273,182.82**	**18.57**
Cereals.....	**262,947**	**223,481.71**	**4,681,388.98**	
Teff.....	154,390	71,775.57	921,205.39	12.83
Barley.....	68,449	12,913.08	167,623.61	12.98
Wheat.....	56,166	14,016.12	257,972.74	18.41
Maize.....	243,829	66,671.95	2,069,841.36	31.05
Sorghum.....	*	*	*	*
Finger millet.....	115,402	53,459.30	1,188,085.10	22.22
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	*	*
Pulses.....	**136,314**	**34,212.14**	**380,201.24**	
Faba beans..... .	56,557	6,739.39	99,855.18	14.82
Field peas.....	35,990	3,657.89	34,520.11	9.44
Haricot beans.....	13,928	*	*	*
Chick-peas.....	13,337	4,455.11	*	*
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	9,132	*	*	*
Fenugreek.....	19,099	95.79	434.45	4.54
Gibto.....	48,559	14,720.99	154,653.04	10.51
Oilseeds.....	**131,193**	**26,324.77**	**211,592.61**	
Neug.....	40,224	17,616.23	69,660.88	3.95
Linseed.....	4,697	213.73	1,099.77	5.15
Groundnuts.....	*	*	*	*
Safflower.....	*	*	-	-
Sesame.....	*	*	*	*
Rape seed.....	91,789	3,954.36	99,234.37	25.09
Vegetables.....	**122,362**	**14,180.96**	**292,843.01**	
Lettuce.....	-	-	-	-
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	18,158	*	*	*
Tomatoes.....	1,749	*	-	-
Green peppers.....	9,245	*	*	*
Red peppers.....	98,922	13,824.22	261,659.87	18.93
Swiss chard.....	-	-	-	-
Root Crops.....	**133,867**	**3,844.82**	**671,105.89**	
Beetroot.....	1,824	1.99	*	*
Carrot.....	*	*	-	-
Onion.....	*	*	*	*
Potatoes.....	61,211	2,989.77	609,912.69	204.00
Garlic.....	86,499	392.41	38,138.82	97.19
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	14,222	*	*	*
Fruit Crops.....	**39,834**	**133.26**	**11,349.62**	**85.17**
Avocados.....	*	*	-	-
Bananas.....	14,031	32.49	897.83	27.63
Guavas.....	*	*	*	*
Lemons.....	3,720	*	*	*
Mangoes.....	11,559	27.78	930.73	33.50
Oranges.....	*	*	*	*
Papayas.....	*	*	*	*
Pineapples.....	-	-	-	-
Chat.....	*	*	-	-
Coffee.....	**39,370**	**656.16**	**1,262.06**	**1.92**
Hops.....	**94,027**	**540.83**	**2,076.72**	**3.84**
Sugar Cane.....	**15,199**	**304.52**	**284,934.03**	**935.65**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6.10 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Oromia Zone

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**88,883**	**56,887.92**	**990,414.80**	**17.41**
Cereals.....	**87,901**	**47,927.82**	**900,101.66**	
Teff.....	33,585	9,321.69	120,195.60	12.89
Barley.....	4,049	208.94	2,298.83	11.00
Wheat.....	*	*	*	*
Maize.....	57,038	4,281.70	76,113.67	17.78
Sorghum.....	73,240	33,978.66	699,615.53	20.59
Finger millet.....	*	*	*	*
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	**33,063**	**4,109.37**	**45,272.52**	
Faba beans..... .	*	*	*	*
Field peas.....	*	*	*	*
Haricot beans.....	24,149	3,089.99	37,003.08	11.98
Chick-peas.....	5,351	*	*	*
Lentils.....	2,362	*	614.95	*
Grass Peas.....	*	*	*	*
Soya beans.....	*	*	-	-
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**43,584**	**4,850.73**	**45,040.62**	
Neug.....	2,081	*	*	*
Linseed.....	4,829	*	534.50	*
Groundnuts.....	13,214	*	*	*
Safflower.....	15,103	616.52	7,540.99	12.23
Sesame.....	26,327	2,663.92	20,315.77	7.63
Rape seed.....	*	*	1,015.16	*
Vegetables.....	**26,613**	**506.44**	**20,244.56**	
Lettuce.....	-	-	-	-
Head Cabbage.....	*	*	-	-
Ethiopian Cabbage.....	3,726	*	628.88	*
Tomatoes.....	4,154	83.59	10,982.20	131.38
Green peppers.....	3,594	*	*	*
Red peppers.....	16,938	373.17	5,212.75	13.97
Swiss chard.....	-	-	-	-
Root Crops.....	**6,421**	*	*	
Beetroot.....	-	-	-	-
Carrot.....	*	*	-	-
Onion.....	2,860	*	*	*
Potatoes.....	*	*	*	*
Garlic.....	3,698	*	*	*
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	*	*
Fruit Crops.....	**26,747**	**408.08**	**16,342.27**	**40.05**
Avocados.....	*	*	-	-
Bananas.....	5,618	*	*	*
Guavas.....	6,580	43.36	845.20	19.49
Lemons.....	4,626	20.39	2,199.48	107.87
Mangoes.....	8,414	57.77	1,978.12	34.24
Oranges.....	8,619	*	7,077.26	*
Papayas.....	8,455	21.00	1,180.65	56.22
Pineapples.....	-	-	-	-
Chat.....	**24,005**	**2,876.55**	**8,155.47**	**2.84**
Coffee.....	**18,236**	**937.71**	**936.27**	**1.00**
Hops.....	**-**	**-**	**-**	**-**
Sugar Cane.....	**1,494**	*	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 6.11 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Argoba Special

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**7,915**	**5,974.37**	**79,971.80**	**13.39**
Cereals.....	**7,821**	**4,670.06**	**70,606.41**	
Teff.....	1,606	390.25	4,243.12	10.87
Barley.....	321	5.90	45.18	7.66
Wheat.....	96	*	*	*
Maize.....	4,682	726.12	9,429.32	12.99
Sorghum.....	6,882	3,502.37	56,502.58	16.13
Finger millet.....	415	8.75	61.15	6.99
Oats/'Aja'.....	192	19.43	230.64	11.87
Rice.....	*	*	-	-
Pulses.....	**2,958**	**284.27**	**2,131.97**	
Faba beans..... .	77	*	*	*
Field peas.....	208	9.94	98.35	9.89
Haricot beans.....	2,521	253.55	1,916.69	7.56
Chick-peas.....	*	*	*	*
Lentils.....	73	2.86	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	*	*
Fenugreek.....	513	1.92	9.38	4.89
Gibto.....	*	*	-	-
Oilseeds.....	**3,793**	**1,020.03**	**7,233.42**	
Neug.....	70	*	*	*
Linseed.....	346	3.80	14.20	3.74
Groundnuts.....	-	-	-	-
Safflower.....	1,719	85.15	2,290.41	26.90
Sesame.....	3,001	928.23	4,913.74	5.29
Rape seed.....	-	-	-	-
Vegetables.....	**2,807**	**35.77**	**740.38**	
Lettuce.....	-	-	-	-
Head Cabbage.....	-	-	-	-
Ethiopian Cabbage.....	*	*	*	*
Tomatoes.....	-	-	-	-
Green peppers.....	385	3.53	*	*
Red peppers.....	2,342	31.68	447.77	14.13
Swiss chard.....	*	*	-	-
Root Crops.....	**458**	**0.87**	**96.89**	
Beetroot.....	*	*	*	*
Carrot.....	*	*	-	-
Onion.....	*	*	-	-
Potatoes.....	*	*	*	*
Garlic.....	367	0.28	27.60	98.57
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	75	*	*	*
Fruit Crops.....	**508**	**3.43**	**142.56**	**41.56**
Avocados.....	*	*	-	-
Bananas.....	113	*	*	*
Guavas.....	215	0.77	15.32	19.90
Lemons.....	*	*	*	*
Mangoes.....	255	*	*	*
Oranges.....	144	*	-	-
Papayas.....	182	0.15	4.93	32.87
Pineapples.....	-	-	-	-
Chat.....	**278**	**5.27**	**48.90**	**9.28**
Coffee.....	**432**	**5.39**	**17.23**	**3.20**
Hops.....	**-**	**-**	**-**	**-**
Sugar Cane.....	*	*	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 7 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Oromia Region

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**5,377,774**	**5,598,771.59**	**114,681,202.22**	
Cereals.....	**5,273,595**	**4,486,163.34**	**99,568,008.32**	
Teff.....	2,328,329	1,256,564.80	17,535,596.51	13.96
Barley.....	1,565,303	448,545.32	8,977,417.59	20.01
Wheat.....	1,986,536	872,971.81	20,262,900.10	23.21
Maize.....	3,890,874	1,115,957.40	35,908,457.46	32.18
Sorghum.....	2,099,635	675,657.31	14,898,156.74	22.05
Finger millet.....	434,152	92,306.89	1,532,059.62	16.60
Oats/'Aja'.....	179,806	21,889.32	378,062.07	17.27
Rice.....	24,347	2,270.49	75,358.24	33.19
Pulses.....	**3,001,665**	**734,045.32**	**11,683,118.95**	
Faba beans..... .	1,494,891	237,162.85	4,262,593.48	17.97
Field peas.....	547,027	99,940.64	1,370,862.08	13.72
Haricot beans.....	1,311,211	171,666.55	2,378,983.47	13.86
Chick-peas.....	293,036	90,757.25	1,629,204.96	17.95
Lentils.....	306,601	37,049.94	471,468.54	12.73
Grass Peas.....	285,823	67,422.87	1,169,791.48	17.35
Soya beans.....	63,220	14,117.84	251,840.46	17.84
Fenugreek.....	345,484	15,738.77	148,374.47	9.43
Gibto.....	4,861	*	-	-
Oilseeds.....	**1,454,992**	**378,562.94**	**3,430,074.95**	
Neug.....	484,749	188,558.40	1,251,069.84	6.63
Linseed.....	448,940	73,862.71	846,667.43	11.46
Groundnuts.....	238,653	56,950.52	756,518.38	13.28
Safflower.....	33,587	2,070.23	29,096.02	14.05
Sesame.....	152,268	42,219.83	317,423.85	7.52
Rape seed.....	411,076	14,901.25	229,299.44	15.39
Vegetables.....	**2,550,998**	**85,220.08**	**3,618,527.58**	
Lettuce.....	20,658	36.53	*	*
Head Cabbage.....	269,386	1,546.87	103,093.80	66.65
Ethiopian Cabbage.....	1,417,917	10,690.77	1,125,302.37	105.26
Tomatoes.....	97,335	4,492.34	393,565.94	87.61
Green peppers.....	776,685	7,078.54	579,400.10	81.85
Red peppers.....	739,292	61,159.49	1,414,712.15	23.13
Swiss chard.....	32,408	*	*	*
Root Crops.....	**2,282,732**	**82,072.45**	**13,099,057.61**	
Beetroot.....	329,745	1,110.74	108,776.10	97.93
Carrot.....	103,847	660.63	33,775.08	51.13
Onion.....	329,143	11,024.47	988,544.69	89.67
Potatoes.....	532,583	39,254.57	2,914,227.07	74.24
Garlic.....	939,310	8,620.34	893,618.50	103.66
Taro/'Godere'.....	446,446	5,500.96	1,325,617.65	240.98
Sweet potatoes.....	542,880	15,900.75	6,834,498.52	429.82
Fruit Crops.....	**1,189,209**	**20,671.95**	**1,311,351.81**	**63.44**
Avocados.....	294,030	2,766.45	8,725.87	3.15
Bananas.....	807,582	11,713.45	824,652.06	70.40
Guavas.....	107,768	576.88	5,009.30	8.68
Lemons.....	29,923	108.07	1,762.00	16.30
Mangoes.....	378,670	3,789.47	284,065.79	74.96
Oranges.....	151,123	1,052.60	99,389.17	94.42
Papayas.....	184,067	605.11	86,984.49	143.75
Pineapples.....	8,844	59.91	*	*
Chat.....	**1,436,311**	**117,315.76**	**1,171,276.20**	**9.98**
Coffee.....	**1,657,988**	**374,732.89**	**2,095,416.92**	**5.59**
Hops.....	**449,816**	**4,066.44**	**79,843.22**	**19.63**
Sugar Cane.....	**337,823**	**7,594.37**	**2,153,107.30**	**283.51**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	20,755,686	**1,919,130.47**	**2,365,992.26**	**93,913.60**	**0.09**	**0.11**	*

Table 7.1 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

West Welega

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**279,650**	**260,113.12**	**4,986,274.87**	
Cereals.....	**275,813**	**209,800.13**	**4,562,702.28**	
Teff.....	110,217	36,919.65	368,533.94	9.98
Barley.....	36,762	1,452.17	9,802.93	6.75
Wheat.....	46,483	3,205.68	35,455.09	11.06
Maize.....	262,143	73,230.46	2,458,925.87	33.58
Sorghum.....	197,947	56,680.28	1,220,294.86	21.53
Finger millet.....	133,618	38,278.90	469,531.70	12.27
Oats/'Aja'.....	2,150	33.00	157.89	4.78
Rice.....	-	-	-	-
Pulses.....	**155,558**	**15,685.49**	**144,713.08**	
Faba beans..... .	57,751	3,662.89	36,575.79	9.99
Field peas.....	26,005	1,128.47	8,125.28	7.20
Haricot beans.....	113,228	9,270.29	85,447.66	9.22
Chick-peas.....	*	*	*	*
Lentils.....	*	*	-	-
Grass Peas.....	6,921	96.85	340.70	3.52
Soya beans.....	11,530	*	*	*
Fenugreek.....	8,420	164.84	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**132,954**	**34,627.50**	**278,859.51**	
Neug.....	82,335	21,838.40	183,626.04	8.41
Linseed.....	17,444	714.24	2,718.73	3.81
Groundnuts.....	10,140	*	4,092.63	*
Safflower.....	*	*	*	*
Sesame.....	19,852	*	*	*
Rape seed.....	43,418	1,513.24	28,755.32	19.00
Vegetables.....	**142,722**	*	**237,683.85**	
Lettuce.....	*	*	-	-
Head Cabbage.....	13,770	*	*	*
Ethiopian Cabbage.....	30,081	206.97	30,136.63	145.61
Tomatoes.....	*	*	-	-
Green peppers.....	32,528	285.38	30,195.78	105.81
Red peppers.....	96,491	*	*	*
Swiss chard.....	*	*	-	-
Root Crops.....	**146,237**	**3,937.15**	**123,476.63**	
Beetroot.....	12,491	49.07	*	*
Carrot.....	8,659	19.32	-	-
Onion.....	8,538	*	*	*
Potatoes.....	2,166	*	*	*
Garlic.....	30,967	68.67	6,477.87	94.33
Taro/'Godere'.....	37,710	333.84	97,815.47	293.00
Sweet potatoes.....	110,749	3,383.95	-	-
Fruit Crops.....	**174,478**	**4,637.07**	**323,243.94**	**69.71**
Avocados.....	36,859	552.60	-	-
Bananas.....	129,970	2,318.32	176,420.69	76.10
Guavas.....	*	*	-	-
Lemons.....	5,532	*	*	*
Mangoes.....	65,909	1,200.84	100,276.53	83.51
Oranges.....	43,901	493.66	*	*
Papayas.....	15,795	41.44	*	*
Pineapples.....	*	*	-	-
Chat.....	**54,784**	**1,759.61**	**10,076.94**	**5.73**
Coffee.....	**214,248**	**68,923.39**	**143,398.75**	**2.08**
Hops.....	**30,790**	**210.86**	*	*
Sugar Cane.....	**17,111**	**498.61**	**147,280.47**	**295.38**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 7.2 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

East Welega

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**225,187**	**358,888.81**	**8,097,585.45**	
Cereals.....	**222,057**	**272,898.23**	**7,337,631.86**	
Teff.....	123,510	75,975.35	1,180,219.00	15.53
Barley.....	40,463	6,684.66	93,083.86	13.92
Wheat.....	49,744	10,227.16	174,721.16	17.08
Maize.....	214,142	115,649.92	4,452,790.31	38.50
Sorghum.....	117,843	43,392.90	978,084.47	22.54
Finger millet.....	65,124	20,236.19	446,989.16	22.09
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	*	*
Pulses.....	**111,366**	**21,529.18**	**295,013.90**	
Faba beans..... .	65,172	8,448.86	106,793.63	12.64
Field peas.....	20,396	3,626.82	37,555.79	10.36
Haricot beans.....	34,011	3,589.43	60,233.16	16.78
Chick-peas.....	6,886	*	8,564.77	*
Lentils.....	*	*	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	*	*
Fenugreek.....	16,420	129.47	441.29	3.41
Gibto.....	-	-	-	-
Oilseeds.....	**149,680**	**64,461.40**	**464,939.69**	
Neug.....	98,890	43,834.22	290,412.97	6.63
Linseed.....	3,502	*	*	*
Groundnuts.....	27,018	9,456.04	78,454.55	8.30
Safflower.....	*	*	*	*
Sesame.....	32,126	9,591.62	73,298.66	7.64
Rape seed.....	30,050	879.32	18,506.20	21.05
Vegetables.....	**140,751**	**4,155.33**	**114,996.73**	
Lettuce.....	*	*	-	-
Head Cabbage.....	11,197	41.08	2,002.11	48.74
Ethiopian Cabbage.....	10,065	80.38	8,326.78	103.59
Tomatoes.....	*	*	-	-
Green peppers.....	37,621	241.87	*	*
Red peppers.....	103,264	3,747.97	85,029.54	22.69
Swiss chard.....	*	*	-	-
Root Crops.....	**110,482**	**2,062.29**	**146,580.29**	
Beetroot.....	18,666	31.46	2,774.49	88.19
Carrot.....	4,834	*	*	*
Onion.....	23,296	*	16,927.70	*
Potatoes.....	7,753	346.86	70,758.56	204.00
Garlic.....	57,487	241.02	32,398.25	134.42
Taro/'Godere'.....	11,662	75.98	22,792.51	299.98
Sweet potatoes.....	42,807	1,179.99	-	-
Fruit Crops.....	**72,986**	**940.49**	**56,465.23**	**60.04**
Avocados.....	2,205	*	-	-
Bananas.....	43,762	455.40	17,206.69	37.78
Guavas.....	-	-	-	-
Lemons.....	1,841	2.80	-	-
Mangoes.....	40,175	421.59	34,137.17	80.97
Oranges.....	2,944	10.02	*	*
Papayas.....	8,944	16.11	*	*
Pineapples.....	-	-	-	-
Chat.....	**27,936**	**1,050.82**	**9,172.21**	**8.73**
Coffee.....	**74,145**	**10,868.92**	**18,297.72**	**1.68**
Hops.....	**38,101**	**376.13**	*	*
Sugar Cane.....	**8,752**	**311.95**	**17.368.14**	**55.68-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 7.3 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Illubabor

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**271,215**	**266,835.62**	**5,594,900.24**	**20.97**
Cereals.....	**268,800**	**227,136.48**	**5,163,126.23**	
Teff.....	146,145	68,144.14	730,766.09	10.72
Barley.....	33,432	5,209.11	63,496.88	12.19
Wheat.....	56,994	7,522.28	111,644.23	14.84
Maize.....	258,801	97,252.60	3,073,407.22	31.60
Sorghum.....	154,612	41,104.82	1,018,295.15	24.77
Finger millet.....	44,265	6,249.86	108,686.71	17.39
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	*	*
Pulses.....	**173,469**	**28,454.73**	**341,505.39**	
Faba beans..... .	72,345	9,430.00	108,260.00	11.48
Field peas.....	31,394	5,284.76	46,869.79	8.87
Haricot beans.....	104,824	5,642.47	53,191.25	9.43
Chick-peas.....	*	*	*	*
Lentils.....	*	*	*	*
Grass Peas.....	*	*	*	*
Soya beans.....	22,402	*	*	*
Fenugreek.....	15,759	190.03	1,130.71	5.95
Gibto.....	*	*	-	-
Oilseeds.....	**60,048**	**11,244.41**	**90,268.62**	
Neug.....	29,717	6,325.55	40,668.10	6.43
Linseed.....	8,318	1,055.61	6,783.71	6.43
Groundnuts.....	*	*	*	*
Safflower.....	2,143	*	*	*
Sesame.....	6,673	*	*	*
Rape seed.....	10,915	247.84	3,851.80	15.54
Vegetables.....	**171,294**	**5,985.46**	**360,436.28**	
Lettuce.....	*	*	-	-
Head Cabbage.....	35,651	67.74	6,848.96	101.11
Ethiopian Cabbage.....	68,063	461.97	54,986.41	119.03
Tomatoes.....	3,279	*	*	*
Green peppers.....	79,218	285.05	27,591.37	96.79
Red peppers.....	71,044	5,146.50	270,982.63	52.65
Swiss chard.....	*	*	-	-
Root Crops.....	**155,934**	**2,075.74**	**419,645.45**	
Beetroot.....	42,773	131.61	14,411.43	109.50
Carrot.....	5,054	10.31	*	*
Onion.....	24,079	60.52	5,857.83	96.79
Potatoes.....	4,994	*	*	*
Garlic.....	51,074	94.14	7,123.02	75.66
Taro/'Godere'.....	77,658	697.43	174,356.35	250.00
Sweet potatoes.....	40,447	942.50	188,499.37	200.00
Fruit Crops.....	**121,436**	**1,649.47**	**93,226.46**	**56.52**
Avocados.....	22,246	85.68	-	-
Bananas.....	83,251	1,045.13	45,934.09	43.95
Guavas.....	5,981	24.70	-	-
Lemons.....	1,263	2.85	*	*
Mangoes.....	44,221	366.72	22,374.84	61.01
Oranges.....	11,212	39.42	*	*
Papayas.....	22,977	76.44	21,441.59	280.50
Pineapples.....	*	*	*	*
Chat.....	**98,694**	**4,025.71**	**39,716.39**	**9.87**
Coffee.....	**182,128**	**64,239.51**	**226,096.07**	**3.52**
Hops.....	**11,554**	*	*	*
Sugar Cane.....	**25,825**	**293.54**	**78,005.09**	**265.74-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	*	-	-	-	-	-	-

Table 7.4 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Jimma

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**569,444**	**509,411.97**	**9,606,566.90**	**18.86**
Cereals.....	**563,286**	**430,862.39**	**8,767,615.50**	
Teff.....	418,490	162,422.77	2,072,513.16	12.76
Barley.....	145,059	16,520.79	211,501.80	12.80
Wheat.....	157,863	40,225.57	654,960.40	16.28
Maize.....	441,005	144,362.82	4,547,554.28	31.50
Sorghum.....	271,617	65,201.98	1,251,528.71	19.19
Finger millet.....	10,400	948.06	*	*
Oats/'Aja'.....	21,524	1,168.69	16,879.82	14.44
Rice.....	*	*	*	*
Pulses.....	**317,577**	**48,926.49**	**558,742.54**	
Faba beans..... .	184,012	29,881.28	374,488.48	12.53
Field peas.....	64,245	11,846.12	123,312.13	10.41
Haricot beans.....	155,987	4,906.32	44,285.90	9.03
Chick-peas.....	*	*	*	*
Lentils.....	31,892	926.26	4,772.27	5.15
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	*	*
Fenugreek.....	*	*	*	*
Gibto.....	*	*	-	-
Oilseeds.....	**177,345**	**29,623.10**	**280,208.86**	
Neug.....	41,956	14,051.56	73,970.43	5.26
Linseed.....	103,326	6,200.44	33,139.61	5.34
Groundnuts.....	*	*	*	*
Safflower.....	*	*	-	-
Sesame.....	*	*	*	*
Rape seed.....	52,194	1,504.56	*	*
Vegetables.....	**469,717**	**4,973.67**	**298,296.48**	
Lettuce.....	*	*	-	-
Head Cabbage.....	71,265	167.72	12,951.64	77.22
Ethiopian Cabbage.....	376,274	1,774.74	171,358.11	96.55
Tomatoes.....	10,666	*	-	-
Green peppers.....	233,463	573.73	58,894.98	102.65
Red peppers.....	55,402	2,344.07	55,091.75	23.50
Swiss chard.....	-	-	-	-
Root Crops.....	**363,432**	**5,713.52**	**1,283,233.43**	
Beetroot.....	51,066	85.97	8,205.52	95.45
Carrot.....	8,449	*	*	*
Onion.....	17,681	29.24	*	*
Potatoes.....	24,475	*	*	*
Garlic.....	105,417	361.03	38,219.68	105.86
Taro/'Godere'.....	271,856	3,826.88	964,374.55	252.00
Sweet potatoes.....	43,564	279.15	59,458.04	213.00
Fruit Crops.....	**338,317**	**5,526.17**	**342,990.41**	**62.07**
Avocados.....	165,213	1,629.82	*	*
Bananas.....	242,788	2,622.44	236,651.40	90.24
Guavas.....	61,320	149.43	*	*
Lemons.....	6,869	*	*	*
Mangoes.....	125,354	726.12	71,146.17	97.98
Oranges.....	59,038	218.73	23,074.88	105.49
Papayas.....	67,868	114.54	8,696.23	75.92
Pineapples.....	6,842	*	*	*
Chat.....	**362,165**	**11,380.80**	**70,689.78**	**6.21**
Coffee.....	**423,797**	**103,363.17**	**232,869.18**	**2.25**
Hops.....	**32,870**	**227.79**	*	*
Sugar Cane.....	**136,674**	**1,012.04**	**373,657.87**	**369.21**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	3,461,429	**91,896.59**	**397,479.35**	**7,894.59**	**0.03**	**0.11**	*

Table 7.5 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

West Shewa

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**461,163**	**590,496.70**	**12,367,802.97**	**20.94**
Cereals.....	**451,840**	**480,552.80**	**10,710,371.14**	
Teff.....	265,667	184,066.84	2,876,744.70	15.63
Barley.....	166,248	62,582.05	1,077,128.53	17.21
Wheat.....	185,435	57,573.30	1,302,039.64	22.62
Maize.....	284,982	102,581.78	3,334,503.70	32.51
Sorghum.....	142,497	71,716.35	2,083,015.69	29.05
Finger millet.....	*	*	*	*
Oats/'Aja'.....	13,374	777.66	*	*
Rice.....	*	*	-	-
Pulses.....	**243,071**	**64,649.80**	**1,233,691.51**	
Faba beans..... .	171,712	27,787.55	549,459.12	19.77
Field peas.....	57,428	8,885.99	150,925.54	16.98
Haricot beans.....	24,096	1,510.35	*	*
Chick-peas.....	28,255	7,693.72	122,035.09	15.86
Lentils.....	24,429	2,633.68	*	*
Grass Peas.....	52,516	15,471.69	*	*
Soya beans.....	*	*	*	*
Fenugreek.....	24,774	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**122,134**	**45,294.10**	**423,740.32**	
Neug.....	70,229	33,170.33	265,002.02	7.99
Linseed.....	29,408	8,448.31	118,456.74	14.02
Groundnuts.....	*	*	-	-
Safflower.....	2,782	*	*	*
Sesame.....	*	*	*	*
Rape seed.....	40,163	1,837.54	13,653.66	7.43
Vegetables.....	**260,228**	**16,685.07**	**453,382.61**	
Lettuce.....	*	*	-	-
Head Cabbage.....	30,636	147.34	*	*
Ethiopian Cabbage.....	104,668	523.82	49,477.55	94.46
Tomatoes.....	6,965	*	*	*
Green peppers.....	79,841	*	*	*
Red peppers.....	105,844	*	*	*
Swiss chard.....	7,904	*	*	*
Root Crops.....	**247,193**	**14,185.77**	**2,117,131.83**	
Beetroot.....	55,190	123.75	12,240.51	98.91
Carrot.....	18,693	*	*	*
Onion.....	72,699	771.17	71,152.04	92.27
Potatoes.....	108,481	9,936.85	1,729,012.03	174.00
Garlic.....	172,440	*	*	*
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	11,630	*	*	*
Fruit Crops.....	**34,087**	**290.92**	**14,612.14**	**50.23**
Avocados.....	*	2.58	-	-
Bananas.....	20,438	159.42	7,908.35	49.61
Guavas.....	*	*	-	-
Lemons.....	-	-	-	-
Mangoes.....	12,709	*	*	*
Oranges.....	*	*	*	*
Papayas.....	*	*	-	-
Pineapples.....	-	-	-	-
Chat.....	**13,013**	*	*	*
Coffee.....	**21,640**	*	*	*
Hops.....	**79,967**	**621.03**	**15,266.22**	**24.58**
Sugar Cane.....	**25,744**	*	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	*	*	*	*	*	*	*

Table 7.6 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

North Shewa

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**309,115**	**422,255.64**	**6,778,646.60**	**16.05**
Cereals.....	**301,140**	**318,102.47**	**5,228,145.92**	
Teff.....	212,678	142,389.93	1,983,559.55	13.93
Barley.....	124,082	68,762.14	1,304,796.80	18.98
Wheat.....	164,851	70,978.15	1,277,604.78	18.00
Maize.....	103,778	7,635.34	114,727.45	15.03
Sorghum.....	53,253	27,240.21	532,844.82	19.56
Finger millet.....	*	*	-	-
Oats/'Aja'.....	10,248	973.78	14,612.52	15.01
Rice.....	*	*	-	-
Pulses.....	**213,989**	**93,489.32**	**1,469,912.22**	
Faba beans..... .	168,324	44,521.05	814,423.93	18.29
Field peas.....	37,498	6,201.10	71,910.24	11.60
Haricot beans.....	*	*	*	*
Chick-peas.....	34,909	10,598.72	126,757.99	11.96
Lentils.....	48,221	9,458.04	123,475.83	13.06
Grass Peas.....	70,649	19,324.74	293,728.48	15.20
Soya beans.....	-	-	-	-
Fenugreek.....	6,743	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**79,316**	**10,663.84**	**80,588.47**	
Neug.....	26,243	4,249.70	22,813.41	5.37
Linseed.....	21,128	4,746.41	38,680.17	8.15
Groundnuts.....	-	-	-	-
Safflower.....	7,461	*	*	*
Sesame.....	*	*	*	*
Rape seed.....	36,717	916.02	8,889.29	9.70
Vegetables.....	**119,495**	**669.58**	**54,014.01**	
Lettuce.....	*	*	*	*
Head Cabbage.....	2,299	0.76	38.54	50.71
Ethiopian Cabbage.....	81,421	187.29	19,410.48	103.64
Tomatoes.....	6,223	*	*	*
Green peppers.....	22,689	*	*	*
Red peppers.....	12,685	*	*	*
Swiss chard.....	7,040	3.49	*	*
Root Crops.....	**136,212**	**1,096.87**	**130,831.87**	
Beetroot.....	9,304	27.09	*	*
Carrot.....	*	*	*	*
Onion.....	14,717	*	*	*
Potatoes.....	21,617	*	*	*
Garlic.....	119,927	417.05	5,453.84	13.08
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	*	*
Fruit Crops.....	*	*	*	*
Avocados.....	-	-	-	-
Bananas.....	*	*	*	*
Guavas.....	-	-	-	-
Lemons.....	*	*	*	*
Mangoes.....	-	-	-	-
Oranges.....	*	*	*	*
Papayas.....	*	*	-	-
Pineapples.....	-	-	-	-
Chat.....	**5,154**	*	*	*
Coffee.....	**4,224**	**6.39**	**-**	**-**
Hops.....	**57,193**	**305.95**	**13,950.50**	**45.60**
Sugar Cane.....	*	*	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 7.7 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

East Shewa

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**301,814**	**463,622.15**	**9,549,782.27**	**20.60**
Cereals.....	**292,663**	**359,468.35**	**7,681,045.70**	
Teff.....	216,875	182,560.26	2,789,122.92	15.28
Barley.....	63,379	12,455.37	232,029.68	18.63
Wheat.....	143,852	68,705.65	1,563,997.87	22.76
Maize.....	198,213	85,804.65	2,917,505.61	34.00
Sorghum.....	36,518	9,059.46	172,954.18	19.09
Finger millet.....	*	*	*	*
Oats/'Aja'.....	*	*	*	*
Rice.....	-	-	-	-
Pulses.....	**205,420**	**103,590.34**	**1,864,878.09**	
Faba beans..... .	74,620	12,251.87	289,946.47	23.67
Field peas.....	30,593	5,745.99	99,782.59	17.37
Haricot beans.....	128,027	46,170.16	722,486.59	15.65
Chick-peas.....	45,700	21,900.64	481,935.21	22.01
Lentils.....	57,432	12,347.53	184,586.71	14.95
Grass Peas.....	29,752	4,823.19	83,290.28	17.27
Soya beans.....	-	-	-	-
Fenugreek.....	5,920	350.95	2,850.25	8.12
Gibto.....	-	-	-	-
Oilseeds.....	**15,205**	**563.46**	**3,858.48**	
Neug.....	*	*	*	*
Linseed.....	6,165	224.57	1,168.35	5.20
Groundnuts.....	-	-	-	-
Safflower.....	*	*	*	*
Sesame.....	-	-	-	-
Rape seed.....	8,083	*	*	*
Vegetables.....	**67,033**	**4,080.72**	**345,495.53**	
Lettuce.....	*	*	*	*
Head Cabbage.....	2,988	*	*	*
Ethiopian Cabbage.....	46,763	729.40	71,181.08	97.59
Tomatoes.....	9,299	*	*	*
Green peppers.....	18,165	*	*	*
Red peppers.....	*	*	*	*
Swiss chard.....	*	*	*	*
Root Crops.....	**42,763**	*	*	
Beetroot.....	1,293	*	*	*
Carrot.....	*	*	*	*
Onion.....	19,273	*	*	*
Potatoes.....	4,671	*	-	-
Garlic.....	26,127	131.36	14,860.29	113.13
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	*	*
Fruit Crops.....	**11,682**	**128.08**	**6,761.33**	**52.79**
Avocados.....	*	*	*	*
Bananas.....	2,281	*	*	*
Guavas.....	*	*	-	-
Lemons.....	*	*	*	*
Mangoes.....	*	*	*	*
Oranges.....	*	*	*	*
Papayas.....	4,828	*	*	*
Pineapples.....	-	-	-	-
Chat.....	*	*	*	*
Coffee.....	**4,705**	*	*	*
Hops.....	**25,616**	**344.04**	**16,234.78**	**47.19**
Sugar Cane.....	*	*	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 7.8 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Arsi

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**539,388**	**595,239.26**	**13,021,450.82**	**21.88**
Cereals.....	**531,535**	**496,223.79**	**11,350,632.32**	
Teff.....	201,863	81,785.00	1,153,110.55	14.10
Barley.....	246,532	93,757.41	2,270,313.03	24.21
Wheat.....	332,347	209,218.88	5,115,026.71	24.45
Maize.....	327,372	77,681.52	1,987,977.27	25.59
Sorghum.....	111,551	31,815.98	798,179.35	25.09
Finger millet.....	*	*	*	*
Oats/'Aja'.....	27,846	1,943.15	25,370.08	13.06
Rice.....	-	-	-	-
Pulses.....	**326,583**	**74,957.63**	**1,355,730.32**	
Faba beans..... .	221,980	38,158.41	851,525.72	22.32
Field peas.....	74,738	15,524.76	258,666.48	16.66
Haricot beans.....	87,120	15,463.51	191,497.56	12.38
Chick-peas.....	3,841	*	*	*
Lentils.....	34,232	1,726.75	12,774.75	7.40
Grass Peas.....	16,173	1,371.82	20,149.59	14.69
Soya beans.....	-	-	-	-
Fenugreek.....	30,009	2,233.93	16,473.17	7.37
Gibto.....	-	-	-	-
Oilseeds.....	**119,547**	**24,057.84**	**315,088.18**	
Neug.....	19,957	*	*	*
Linseed.....	72,455	21,384.14	296,145.79	13.85
Groundnuts.....	*	*	*	*
Safflower.....	*	*	*	*
Sesame.....	*	*	*	*
Rape seed.....	33,380	937.09	10,763.38	11.49
Vegetables.....	**171,903**	**3,479.33**	**248,277.56**	
Lettuce.....	*	*	-	-
Head Cabbage.....	26,621	214.10	10,762.08	50.27
Ethiopian Cabbage.....	109,563	1,083.05	111,023.56	102.51
Tomatoes.....	*	*	*	*
Green peppers.....	36,721	203.51	14,972.07	73.57
Red peppers.....	21,143	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**177,962**	**8,983.01**	**481,931.58**	
Beetroot.....	33,209	264.23	23,956.72	90.67
Carrot.....	21,456	*	*	*
Onion.....	36,163	3,045.71	205,638.17	67.52
Potatoes.....	52,748	3,477.24	-	-
Garlic.....	103,183	1,602.10	210,963.05	131.68
Taro/'Godere'.....	*	*	*	*
Sweet potatoes.....	7,174	*	*	*
Fruit Crops.....	**22,919**	**548.70**	**23,839.42**	**43.45**
Avocados.....	-	-	-	-
Bananas.....	14,762	*	*	*
Guavas.....	*	*	-	-
Lemons.....	*	*	-	-
Mangoes.....	*	*	*	*
Oranges.....	*	*	*	*
Papayas.....	3,100	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**48,178**	**3,804.66**	**34,373.90**	**9.03**
Coffee.....	**55,990**	**8,971.11**	**57,143.22**	**6.37**
Hops.....	**44,707**	**448.43**	**4,328.97**	**9.65**
Sugar Cane.....	**6,178**	**143.86**	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 7.9 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

West Harerge

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**332,330**	**234,107.75**	**5,257,789.00**	**22.46**
Cereals.....	**331,981**	**203,387.80**	**4,846,092.03**	
Teff.....	35,593	4,579.60	55,132.03	12.04
Barley.....	74,102	5,045.62	89,769.43	17.79
Wheat.....	41,418	3,578.20	64,249.12	17.96
Maize.....	289,615	66,803.05	1,795,831.71	26.88
Sorghum.....	287,359	122,046.17	2,817,696.62	23.09
Finger millet.....	18,806	*	*	*
Oats/'Aja'.....	*	*	*	*
Rice.....	-	-	-	-
Pulses.....	**177,095**	**21,816.07**	**288,110.62**	
Faba beans..... .	14,701	1,031.04	14,976.04	14.53
Field peas.....	2,951	249.60	1,785.88	7.15
Haricot beans.....	142,840	14,752.46	208,104.00	14.11
Chick-peas.....	30,348	4,039.55	*	*
Lentils.....	20,019	935.22	11,825.88	12.65
Grass Peas.....	*	*	*	*
Soya beans.....	*	*	*	*
Fenugreek.....	32,505	611.24	4,362.08	7.14
Gibto.....	*	*	-	-
Oilseeds.....	**102,194**	**8,903.88**	**123,586.34**	
Neug.....	*	*	*	*
Linseed.....	34,845	859.72	6,056.16	7.04
Groundnuts.....	40,257	3,506.43	*	*
Safflower.....	*	*	*	*
Sesame.....	35,536	*	36,814.88	*
Rape seed.....	*	*	10,440.07	*
Vegetables.....	**117,587**	**7,061.93**	**199,969.71**	
Lettuce.....	*	*	*	*
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	1,454	*	*	*
Tomatoes.....	33,150	476.77	*	*
Green peppers.....	18,319	89.57	7,807.70	87.17
Red peppers.....	78,712	6,453.69	148,228.09	22.97
Swiss chard.....	-	-	-	-
Root Crops.....	**82,843**	**4,171.78**	**696,660.85**	
Beetroot.....	*	*	*	*
Carrot.....	-	-	-	-
Onion.....	32,282	1,926.53	220,209.30	114.30
Potatoes.....	*	*	*	*
Garlic.....	8,053	36.54	3,870.80	105.93
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	46,829	1,720.75	382,005.79	222.00
Fruit Crops.....	**50,923**	**1,110.48**	**62,039.59**	**55.87**
Avocados.....	-	-	-	-
Bananas.....	30,896	*	*	*
Guavas.....	9,596	27.14	305.94	11.27
Lemons.....	*	*	*	*
Mangoes.....	*	*	*	*
Oranges.....	*	*	*	*
Papayas.....	*	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**210,852**	**23,719.70**	**166,507.39**	**7.02**
Coffee.....	**120,542**	**13,303.87**	**157,510.64**	**11.84**
Hops.....	**1,595**	*	-	-
Sugar Cane.....	**21,222**	**975.71**	**452,804.14**	**462.08**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 7.10 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

East Harerge

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**495,831**	**250,835.75**	**4,850,228.35**	**19.34**
Cereals.....	**495,350**	**206,683.23**	**4,258,238.00**	
Teff.....	38,403	*	*	*
Barley.....	76,101	4,442.12	78,681.52	17.71
Wheat.....	153,265	19,629.31	*	*
Maize.....	400,899	47,516.94	1,324,080.44	27.87
Sorghum.....	418,150	129,153.93	2,340,948.42	18.13
Finger millet.....	*	*	*	*
Oats/'Aja'.....	22,230	1,371.84	*	*
Rice.....	-	-	-	-
Pulses.....	**211,338**	**13,913.85**	**222,771.10**	
Faba beans..... .	42,319	*	*	*
Field peas.....	6,746	*	*	*
Haricot beans.....	127,879	6,668.02	*	*
Chick-peas.....	9,600	448.68	1,848.22	4.12
Lentils.....	15,741	526.89	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	*	*
Fenugreek.....	92,805	2,181.16	25,006.84	11.46
Gibto.....	*	*	-	-
Oilseeds.....	**191,299**	**30,238.67**	**369,219.24**	
Neug.....	-	-	-	-
Linseed.....	71,740	2,288.66	21,915.88	9.58
Groundnuts.....	114,991	27,484.54	340,718.49	12.40
Safflower.....	-	-	-	-
Sesame.....	8,052	254.40	2,102.82	8.27
Rape seed.....	*	*	*	*
Vegetables.....	**33,840**	**287.80**	**12,128.83**	
Lettuce.....	*	*	-	-
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	2,535	*	*	*
Tomatoes.....	5,186	26.25	*	*
Green peppers.....	14,681	58.92	3,911.87	66.39
Red peppers.....	7,532	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**198,953**	**7,261.50**	**6,159,801.89**	
Beetroot.....	*	*	*	*
Carrot.....	*	*	*	*
Onion.....	14,102	*	*	*
Potatoes.....	34,920	*	*	*
Garlic.....	23,655	359.80	46,755.24	129.95
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	155,833	4,788.68	5,731,699.55	1,196.93
Fruit Crops.....	**68,972**	**741.65**	**33,363.71**	**44.99**
Avocados.....	-	-	-	-
Bananas.....	38,990	383.19	22,560.96	58.88
Guavas.....	14,701	158.09	2,008.88	12.71
Lemons.....	*	*	*	*
Mangoes.....	18,991	178.65	7,383.82	41.33
Oranges.....	*	*	-	-
Papayas.....	5,646	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**436,141**	**56,523.12**	**647,529.97**	**11.46**
Coffee.....	**134,696**	**5,797.38**	**17,624.10**	**3.04**
Hops.....	*	*	-	-
Sugar Cane.....	**16,929**	**188.94**	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 7.11 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Bale

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**300,467**	**350,860.41**	**7,039,122.65**	**20.06**
Cereals.....	**291,650**	**297,164.40**	**6,259,212.23**	
Teff.....	104,900	44,750.85	530,492.84	11.85
Barley.....	102,363	44,579.55	829,335.53	18.60
Wheat.....	166,936	142,414.78	3,631,341.53	25.50
Maize.....	158,825	37,892.16	814,122.08	21.49
Sorghum.....	50,609	13,752.93	195,934.48	14.25
Finger millet.....	*	*	-	-
Oats/'Aja'.....	57,040	13,765.88	257,985.77	18.74
Rice.....	-	-	-	-
Pulses.....	**128,139**	**30,364.87**	**525,215.60**	
Faba beans..... .	54,887	14,235.41	299,609.11	21.05
Field peas.....	30,534	6,899.08	126,235.32	18.30
Haricot beans.....	50,038	4,687.63	53,233.20	11.36
Chick-peas.....	8,873	*	*	*
Lentils.....	17,066	1,280.34	*	*
Grass Peas.....	*	*	*	*
Soya beans.....	*	*	-	-
Fenugreek.....	17,473	1,949.04	17,449.81	8.95
Gibto.....	-	-	-	-
Oilseeds.....	**50,319**	**23,331.13**	**254,694.83**	
Neug.....	*	*	*	*
Linseed.....	31,612	17,608.89	222,687.69	12.65
Groundnuts.....	*	*	*	*
Safflower.....	*	*	-	-
Sesame.....	13,759	5,315.05	27,405.93	5.16
Rape seed.....	*	*	*	*
Vegetables.....	**70,969**	**6,649.04**	**157,002.39**	
Lettuce.....	*	*	-	-
Head Cabbage.....	6,040	52.90	3,217.46	60.82
Ethiopian Cabbage.....	32,530	255.38	27,344.43	107.07
Tomatoes.....	1,345	*	-	-
Green peppers.....	9,637	*	*	*
Red peppers.....	34,413	6,130.74	111,140.91	18.13
Swiss chard.....	*	*	-	-
Root Crops.....	**46,907**	**2,955.25**	**532,362.27**	
Beetroot.....	5,759	*	*	*
Carrot.....	*	*	*	*
Onion.....	11,411	*	*	*
Potatoes.....	14,685	*	*	*
Garlic.....	9,245	226.63	19,268.16	85.02
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	11,614	*	*	*
Fruit Crops.....	**23,302**	**965.17**	**83,523.45**	**86.54**
Avocados.....	*	*	-	-
Bananas.....	12,484	368.11	29,678.07	80.62
Guavas.....	3,187	*	*	*
Lemons.....	*	*	*	*
Mangoes.....	8,738	*	*	*
Oranges.....	*	*	*	*
Papayas.....	4,776	131.43	*	*
Pineapples.....	*	*	-	-
Chat.....	**40,397**	**8,549.18**	**65,676.69**	**7.68**
Coffee.....	**45,100**	**16,900.44**	*	*
Hops.....	**8,559**	**88.23**	*	*
Sugar Cane.....	*	*	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 7.12 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Borena

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**83,617**	**30,444.59**	**647,289.37**	**21.26**
Cereals.....	**71,899**	**22,159.71**	**540,667.86**	
Teff.....	19,554	3,655.41	40,638.16	11.12
Barley.....	4,540	271.39	3,282.72	12.10
Wheat.....	9,518	*	*	*
Maize.....	56,299	10,557.83	347,482.56	32.91
Sorghum.....	11,722	*	*	*
Finger millet.....	*	*	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	**56,634**	**8,242.17**	**106,368.20**	
Faba beans..... .	*	136.55	2,315.24	16.96
Field peas.....	*	*	*	*
Haricot beans.....	56,036	8,046.31	103,647.02	12.88
Chick-peas.....	*	*	*	*
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	*	*	*	
Neug.....	-	-	-	-
Linseed.....	-	-	-	-
Groundnuts.....	*	*	-	-
Safflower.....	*	*	*	*
Sesame.....	-	-	-	-
Rape seed.....	*	*	*	*
Vegetables.....	**38,766**	**532.79**	**41,066.80**	
Lettuce.....	-	-	-	-
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	32,258	331.81	30,115.83	90.76
Tomatoes.....	*	*	-	-
Green peppers.....	12,967	135.90	10,005.44	73.62
Red peppers.....	*	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**22,503**	**678.66**	**70,120.45**	
Beetroot.....	*	*	*	*
Carrot.....	-	-	-	-
Onion.....	*	*	-	-
Potatoes.....	2,758	45.49	-	-
Garlic.....	*	*	-	-
Taro/'Godere'.....	7,826	*	*	*
Sweet potatoes.....	16,956	499.76	50,975.24	102.00
Fruit Crops.....	**32,934**	**684.05**	**26,523.96**	**38.77**
Avocados.....	11,609	130.73	-	-
Bananas.....	22,010	539.51	25,971.91	48.14
Guavas.....	*	*	*	*
Lemons.....	*	*	-	-
Mangoes.....	*	*	*	*
Oranges.....	*	*	-	-
Papayas.....	*	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**13,127**	**1,000.04**	*	*
Coffee.....	**55,229**	**9,749.18**	**218,630.17**	**22.43**
Hops.....	*	*	-	-
Sugar Cane.....	**8,565**	**229.01**	**109,754.90**	**479.26**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	1,318,750	**172,717.73**	**189,720.53**	**3,025.93**	**0.13**	**0.14**	*

Table 7.13 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

South West Shewa

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**300,095**	**379,805.49**	**6,681,577.56**	**17.59**
Cereals.....	**294,232**	**263,218.54**	**4,814,283.86**	
Teff.....	198,637	137,094.58	2,041,331.49	14.89
Barley.....	115,142	27,895.38	474,879.05	17.02
Wheat.....	181,169	70,122.04	1,462,553.32	20.86
Maize.....	188,848	23,637.78	765,496.41	32.38
Sorghum.....	30,181	4,126.52	66,361.32	16.08
Finger millet.....	*	*	*	*
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	-	-
Pulses.....	**224,763**	**99,524.36**	**1,737,069.35**	
Faba beans..... .	149,623	14,249.68	234,653.77	16.47
Field peas.....	64,330	13,543.43	200,413.38	14.80
Haricot beans.....	42,451	5,126.63	74,584.49	14.55
Chick-peas.....	91,178	38,089.85	778,157.74	20.43
Lentils.....	48,980	6,610.38	70,084.26	10.60
Grass Peas.....	91,801	20,911.36	369,213.70	17.66
Soya beans.....	*	*	*	*
Fenugreek.....	15,059	932.14	8,797.42	9.44
Gibto.....	*	*	-	-
Oilseeds.....	**74,352**	**17,062.59**	**130,224.35**	
Neug.....	28,792	*	*	*
Linseed.....	25,045	6,321.08	68,449.18	10.83
Groundnuts.....	*	*	-	-
Safflower.....	*	*	*	*
Sesame.....	*	*	*	*
Rape seed.....	30,820	672.53	7,168.20	10.66
Vegetables.....	**202,391**	**4,033.91**	**216,993.03**	
Lettuce.....	3,784	*	-	-
Head Cabbage.....	17,323	80.00	6,940.50	86.76
Ethiopian Cabbage.....	157,147	795.93	102,052.06	128.22
Tomatoes.....	*	*	-	-
Green peppers.....	83,028	391.51	37,532.62	95.87
Red peppers.....	*	*	*	*
Swiss chard.....	10,999	*	*	*
Root Crops.....	**152,026**	**3,092.28**	**122,523.53**	
Beetroot.....	32,596	44.04	4,304.56	97.74
Carrot.....	7,589	3.53	485.05	137.41
Onion.....	24,056	*	*	*
Potatoes.....	67,562	1,900.66	-	-
Garlic.....	91,201	342.71	36,379.23	106.15
Taro/'Godere'.....	*	*	*	*
Sweet potatoes.....	*	*	*	*
Fruit Crops.....	**40,808**	**175.45**	**10,719.95**	**61.10**
Avocados.....	7,911	*	-	-
Bananas.....	20,838	*	*	*
Guavas.....	*	*	*	*
Lemons.....	3,351	*	*	*
Mangoes.....	*	*	*	*
Oranges.....	8,455	*	*	*
Papayas.....	13,363	19.93	1,473.56	73.94
Pineapples.....	*	*	-	-
Chat.....	**56,094**	**1,929.29**	**16,943.72**	**8.78**
Coffee.....	**34,360**	**342.54**	**-**	**-**
Hops.....	**63,018**	**513.94**	*	*
Sugar Cane.....	**18,506**	**74.36**	**7,125.27**	**95.82**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	2,104,480	**193,051.30**	**202,323.55**	**23,337.02**	**0.09**	**0.10**	**0.01**

Table 7.14 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Guji

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**206,359**	**123,585.28**	**2,939,510.27**	**23.79**
Cereals.....	**191,045**	**95,150.84**	**2,399,792.35**	
Teff.....	35,540	13,027.23	157,401.05	12.08
Barley.....	68,920	23,812.70	409,471.81	17.20
Wheat.....	26,089	6,650.60	159,541.18	23.99
Maize.....	153,464	51,647.43	1,672,872.37	32.39
Sorghum.....	*	*	*	*
Finger millet.....	-	-	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	**114,532**	**28,403.86**	**539,547.73**	
Faba beans..... .	57,962	8,402.99	163,253.04	19.43
Field peas.....	16,967	3,032.63	27,590.24	9.10
Haricot beans.....	55,556	15,842.34	345,777.32	21.83
Chick-peas.....	*	*	*	*
Lentils.....	*	*	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**1,092**	*	**170.18**	
Neug.....	-	-	-	-
Linseed.....	1,092	*	170.18	*
Groundnuts.....	-	-	-	-
Safflower.....	-	-	-	-
Sesame.....	-	-	-	-
Rape seed.....	-	-	-	-
Vegetables.....	**109,957**	**1,980.88**	**175,075.09**	
Lettuce.....	-	-	-	-
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	103,874	1,703.77	156,782.38	92.02
Tomatoes.....	*	*	-	-
Green peppers.....	16,949	220.19	15,979.16	72.57
Red peppers.....	*	*	*	*
Swiss chard.....	*	*	-	-
Root Crops.....	**31,841**	**1,058.99**	**134,580.75**	
Beetroot.....	*	*	*	*
Carrot.....	*	*	-	-
Onion.....	*	*	-	-
Potatoes.....	18,336	581.95	82,054.94	141.00
Garlic.....	1,820	*	*	*
Taro/'Godere'.....	*	*	*	*
Sweet potatoes.....	10,177	*	*	*
Fruit Crops.....	**39,187**	**1,475.38**	**117,612.53**	**79.72**
Avocados.....	15,386	200.92	7,802.47	38.83
Bananas.....	25,248	1,223.33	107,487.50	87.86
Guavas.....	*	*	*	*
Lemons.....	-	-	-	-
Mangoes.....	*	*	*	*
Oranges.....	*	-	-	-
Papayas.....	*	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**11,070**	*	*	*
Coffee.....	**96,661**	**27,018.47**	**488,188.44**	**18.07**
Hops.....	**2,312**	*	*	*
Sugar Cane.....	**10,256**	**411.63**	**183,695.83**	**446.26**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	8,121,855	**872,938.41**	**931,701.75**	**35,258.01**	**0.11**	**0.11**	*

Table 7.15 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Kelem Wellega

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**174,489**	**163,496.79**	**3,927,660.06**	**24.02**
Cereals.....	**172,888**	**138,213.59**	**3,650,779.84**	
Teff.....	63,320	17,593.80	220,434.93	12.53
Barley.....	40,300	4,761.03	47,356.36	9.95
Wheat.....	45,003	9,000.24	142,759.95	15.86
Maize.....	164,469	56,786.49	2,132,647.23	37.56
Sorghum.....	127,229	31,651.19	745,855.61	23.56
Finger millet.....	97,306	18,098.57	352,529.50	19.48
Oats/'Aja'.....	1,603	*	*	*
Rice.....	*	*	*	*
Pulses.....	**109,044**	**19,680.22**	**216,366.35**	
Faba beans..... .	54,406	6,266.00	79,884.38	12.75
Field peas.....	29,535	4,612.87	45,755.06	9.92
Haricot beans.....	69,697	6,199.11	67,964.97	10.96
Chick-peas.....	11,060	1,657.85	15,644.17	9.44
Lentils.....	*	*	*	*
Grass Peas.....	*	*	*	*
Soya beans.....	3,584	*	*	*
Fenugreek.....	24,407	615.29	2,436.71	3.96
Gibto.....	-	-	-	-
Oilseeds.....	**52,795**	**5,602.98**	**60,513.87**	
Neug.....	16,319	*	*	*
Linseed.....	3,589	136.12	*	*
Groundnuts.....	5,709	249.86	3,878.74	15.52
Safflower.....	*	*	*	*
Sesame.....	6,922	832.63	5,288.87	6.35
Rape seed.....	24,541	1,034.84	21,478.35	20.76
Vegetables.....	**117,443**	**12,857.22**	**284,465.05**	
Lettuce.....	*	*	-	-
Head Cabbage.....	11,099	75.25	3,994.41	53.08
Ethiopian Cabbage.....	12,200	86.82	*	*
Tomatoes.....	2,116	*	-	-
Green peppers.....	15,418	96.16	9,070.63	94.33
Red peppers.....	98,694	12,518.21	263,099.06	21.02
Swiss chard.....	*	*	-	-
Root Crops.....	**73,095**	**1,716.36**	**77,018.98**	
Beetroot.....	11,252	38.15	4,772.18	125.09
Carrot.....	2,639	*	-	-
Onion.....	9,563	*	*	*
Potatoes.....	2,017	76.14	-	-
Garlic.....	12,287	61.60	5,871.89	95.32
Taro/'Godere'.....	30,569	231.78	41,952.40	181.00
Sweet potatoes.....	28,705	*	-	-
Fruit Crops.....	**92,511**	**1,352.82**	**89,933.81**	**66.48**
Avocados.....	5,457	22.59	-	-
Bananas.....	72,694	962.16	68,029.35	70.70
Guavas.....	*	*	*	*
Lemons.....	2,434	5.19	*	*
Mangoes.....	31,218	226.57	18,502.34	81.66
Oranges.....	4,718	*	*	*
Papayas.....	18,683	*	1,333.31	*
Pineapples.....	-	-	-	-
Chat.....	**33,447**	**1,546.45**	**21,499.11**	**13.90**
Coffee.....	**138,389**	**35,763.28**	**86,456.26**	**2.42**
Hops.....	**11,976**	**109.83**	*	*
Sugar Cane.....	**9,741**	**361.07**	**121,608.06**	**336.80 -**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	*	-	-	-	-	-	-

Table 7.16 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Horoguduru

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**117,479**	**278,416.92**	**4,757,832.09**	**17.09**
Cereals.....	**115,018**	**183,291.84**	**3,890,011.04**	
Teff.....	86,146	82,533.47	1,089,120.00	13.20
Barley.....	45,587	12,066.33	186,297.56	15.44
Wheat.....	59,261	25,011.80	485,548.25	19.41
Maize.....	102,801	50,161.75	1,800,386.15	35.89
Sorghum.....	19,662	12,672.13	314,261.78	24.80
Finger millet.....	2,877	488.91	6,930.62	14.18
Oats/'Aja'.....	3,873	261.35	3,353.92	12.83
Rice.....	*	*	*	*
Pulses.....	**88,081**	**25,634.88**	**341,409.90**	
Faba beans..... .	58,153	10,620.88	157,620.95	14.84
Field peas.....	46,394	10,604.53	122,496.16	11.55
Haricot beans.....	14,937	1,815.50	20,780.91	11.45
Chick-peas.....	*	*	*	*
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	*	*
Fenugreek.....	34,323	345.83	2,226.36	6.44
Gibto.....	-	-	-	-
Oilseeds.....	**92,891**	**69,490.20**	**526,411.15**	
Neug.....	66,209	49,928.78	281,104.52	5.63
Linseed.....	7,532	1,319.17	5,967.48	4.52
Groundnuts.....	9,983	*	*	*
Safflower.....	3,058	424.04	6,202.49	14.63
Sesame.....	16,669	8,199.54	77,595.69	9.46
Rape seed.....	52,799	3,312.13	83,554.06	25.23
Vegetables.....	**57,089**	**648.83**	**24,459.69**	
Lettuce.....	*	*	-	-
Head Cabbage.....	16,108	34.81	1,710.45	49.14
Ethiopian Cabbage.....	6,220	43.97	*	*
Tomatoes.....	1,331	*	-	-
Green peppers.....	33,410	218.06	*	*
Red peppers.....	18,099	303.67	4,935.82	16.25
Swiss chard.....	*	*	-	-
Root Crops.....	**80,252**	**1,075.14**	**138,067.34**	
Beetroot.....	21,592	39.89	3,132.61	78.53
Carrot.....	8,122	9.15	971.20	106.14
Onion.....	14,937	86.31	8,261.81	95.72
Potatoes.....	*	*	*	*
Garlic.....	73,597	473.03	59,074.89	124.89
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	2,853	7.98	1,021.36	127.99
Fruit Crops.....	**14,282**	**199.56**	*	*
Avocados.....	845	*	-	-
Bananas.....	8,276	85.49	2,697.74	31.56
Guavas.....	-	-	-	-
Lemons.....	1,891	*	*	*
Mangoes.....	5,203	*	*	*
Oranges.....	618	1.30	*	*
Papayas.....	*	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**8,396**	*	*	*
Coffee.....	**12,081**	*	*	*
Hops.....	**34,015**	**566.78**	**8,078.54**	**14.25**
Sugar Cane.....	**6,726**	**202.31**	**13,462.62**	**66.54**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 7.17 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

West Arsi

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**410,130**	**320,355.35**	**8,577,182.75**	**26.77**
Cereals.....	**402,398**	**281,848.75**	**8,107,660.17**	
Teff.....	50,793	14,512.62	199,407.93	13.74
Barley.....	182,292	58,247.48	1,596,190.11	27.40
Wheat.....	166,308	127,655.69	3,607,583.25	28.26
Maize.....	285,218	66,754.88	2,368,146.80	35.48
Sorghum.....	68,602	9,623.82	*	*
Finger millet.....	49,592	4,603.82	85,206.42	18.51
Oats/'Aja'.....	*	*	*	*
Rice.....	-	-	-	-
Pulses.....	**145,004**	**35,182.05**	**442,073.04**	
Faba beans..... .	42,925	4,495.71	124,925.36	27.79
Field peas.....	7,020	*	*	*
Haricot beans.....	92,688	18,974.59	158,772.77	8.37
Chick-peas.....	*	*	*	*
Lentils.....	*	*	*	*
Grass Peas.....	*	*	*	*
Soya beans.....	-	-	-	-
Fenugreek.....	*	*	*	*
Gibto.....	*	*	-	-
Oilseeds.....	**32,070**	**3,324.55**	**27,449.55**	
Neug.....	-	-	-	-
Linseed.....	11,740	2,394.91	*	*
Groundnuts.....	-	-	-	-
Safflower.....	*	*	-	-
Sesame.....	*	*	*	*
Rape seed.....	18,500	*	4,260.16	*
Vegetables.....	**259,812**	**4,051.63**	**394,783.97**	
Lettuce.....	*	*	-	-
Head Cabbage.....	14,278	275.92	15,413.41	55.86
Ethiopian Cabbage.....	242,798	2,353.86	279,953.18	118.93
Tomatoes.....	*	*	*	*
Green peppers.....	32,031	*	*	*
Red peppers.....	*	*	*	*
Swiss chard.....	*	*	-	-
Root Crops.....	**214,098**	**19,300.97**	**191,819.14**	
Beetroot.....	29,111	170.95	18,402.57	107.65
Carrot.....	7,881	*	*	*
Onion.....	5,838	*	*	*
Potatoes.....	153,571	17,484.43	-	-
Garlic.....	52,466	1,161.40	152,706.20	131.48
Taro/'Godere'.....	*	*	-	-
Sweet potatoes.....	9,007	*	-	-
Fruit Crops.....	**44,885**	**236.79**	**14,959.15**	**63.17**
Avocados.....	*	52.35	*	*
Bananas.....	*	*	*	*
Guavas.....	-	-	-	-
Lemons.....	-	-	-	-
Mangoes.....	*	*	*	*
Oranges.....	-	-	-	-
Papayas.....	*	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**12,584**	*	*	*
Coffee.....	*	*	*	*
Hops.....	*	*	-	-
Sugar Cane.....	**11,122**	*	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	*	*	*	*	*	*	*

Table 8 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Somali Region

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**102,696**	**69,212.30**	**2,059,491.14**	**29.76**
Cereals.....	**100,915**	**65,729.52**	**2,016,878.04**	
Teff.....	*	-	-	-
Barley.....	*	*	*	*
Wheat.....	13,666	4,150.13	92,781.82	22.36
Maize.....	80,437	28,808.44	920,293.39	31.95
Sorghum.....	64,713	31,593.75	980,619.38	31.04
Finger millet.....	-	-	-	-
Oats/'Aja'.....	*	*	*	*
Rice.....	-	-	-	-
Pulses.....	**12,365**	**1,058.39**	**13,954.33**	
Faba beans..... .	-	-	-	-
Field peas.....	*	*	*	*
Haricot beans.....	11,207	941.75	13,803.43	14.66
Chick-peas.....	*	*	-	-
Lentils.....	*	*	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	*	*	*	
Neug.....	-	-	-	-
Linseed.....	*	*	-	-
Groundnuts.....	*	*	*	*
Safflower.....	-	-	-	-
Sesame.....	*	*	*	*
Rape seed.....	-	-	-	-
Vegetables.....	**10,708**	**778.96**	*	
Lettuce.....	-	-	-	-
Head Cabbage.....	-	-	-	-
Ethiopian Cabbage.....	-	-	-	-
Tomatoes.....	9,006	720.91	*	*
Green peppers.....	*	*	*	*
Red peppers.....	-	-	-	-
Swiss chard.....	*	*	-	-
Root Crops.....	**7,883**	**837.76**	*	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	6,735	813.16	*	*
Potatoes.....	-	-	-	-
Garlic.....	*	*	*	*
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	1,003	20.45	-	-
Fruit Crops.....	**5,720**	**410.73**	**54,700.22**	**133.18**
Avocados.....	-	-	-	-
Bananas.....	*	*	*	*
Guavas.....	*	*	*	*
Lemons.....	2,131	44.80	2,319.31	51.77
Mangoes.....	1,439	33.52	3,776.26	112.66
Oranges.....	1,963	208.08	36,074.13	173.37
Papayas.....	*	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**20,717**	**5,274.73**	**76,703.05**	**14.54**
Coffee.....	*	*	-	-
Hops.....	-	-	-	-
Sugar Cane.....	*	*	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 8.1 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Shinele

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**5,775**	**2,215.00**	**25,761.53**	**11.63**
Cereals.....	**5,775**	**2,205.03**	**25,666.06**	
Teff.....	-	-	-	-
Barley.....	-	-	-	-
Wheat.....	-	-	-	-
Maize.....	2,296	277.46	3,272.52	11.79
Sorghum.....	5,258	1,927.57	22,393.54	11.62
Finger millet.....	-	-	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	*	*	*	
Faba beans..... .	-	-	-	-
Field peas.....	*	*	*	*
Haricot beans.....	-	-	-	-
Chick-peas.....	-	-	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	*	*	*	
Neug.....	-	-	-	-
Linseed.....	-	-	-	-
Groundnuts.....	-	-	-	-
Safflower.....	-	-	-	-
Sesame.....	*	*	*	*
Rape seed.....	-	-	-	-
Vegetables.....	**331**	*	*	
Lettuce.....	-	-	-	-
Head Cabbage.....	-	-	-	-
Ethiopian Cabbage.....	-	-	-	-
Tomatoes.....	*	*	*	*
Green peppers.....	*	*	*	*
Red peppers.....	-	-	-	-
Swiss chard.....	-	-	-	-
Root Crops.....	**579**	*	*	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	*	*	*	*
Potatoes.....	-	-	-	-
Garlic.....	*	*	-	-
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	-	-
Fruit Crops.....	**2,678**	**307.84**	**44,130.03**	**143.35**
Avocados.....	-	-	-	-
Bananas.....	*	*	*	*
Guavas.....	*	*	-	-
Lemons.....	1,545	42.16	1,746.01	41.41
Mangoes.....	1,048	31.76	*	*
Oranges.....	1,963	208.08	36,074.13	173.37
Papayas.....	*	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**2,235**	**302.06**	**3,801.71**	**12.59**
Coffee.....	*	*	-	-
Hops.....	-	-	-	-
Sugar Cane.....	*	*	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 8.2 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Jijiga

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**73,547**	**60,846.59**	**1,903,948.51**	**31.29**
Cereals.....	**73,390**	**57,902.38**	**1,869,896.81**	
Teff.....	-	-	-	-
Barley.....	*	*	*	*
Wheat.....	13,666	4,150.13	92,781.82	22.36
Maize.....	56,684	22,966.59	796,860.02	34.70
Sorghum.....	58,891	29,608.46	957,071.53	32.32
Finger millet.....	-	-	-	-
Oats/'Aja'.....	*	*	*	*
Rice.....	-	-	-	-
Pulses.....	**6,987**	*	*	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	*	*	*	*
Chick-peas.....	*	*	-	-
Lentils.....	*	*	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	*	*	*	
Neug.....	-	-	-	-
Linseed.....	*	*	-	-
Groundnuts.....	*	*	*	*
Safflower.....	-	-	-	-
Sesame.....	*	*	*	*
Rape seed.....	-	-	-	-
Vegetables.....	**6,518**	*	*	
Lettuce.....	-	-	-	-
Head Cabbage.....	-	-	-	-
Ethiopian Cabbage.....	-	-	-	-
Tomatoes.....	4,936	*	*	*
Green peppers.....	*	*	*	*
Red peppers.....	-	-	-	-
Swiss chard.....	*	*	-	-
Root Crops.....	**3,796**	*	*	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	3,264	*	*	*
Potatoes.....	-	-	-	-
Garlic.....	*	*	*	*
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	-	-
Fruit Crops.....	*	*	*	*
Avocados.....	-	-	-	-
Bananas.....	-	-	-	-
Guavas.....	*	*	*	*
Lemons.....	-	-	-	-
Mangoes.....	-	-	-	-
Oranges.....	-	-	-	-
Papayas.....	-	-	-	-
Pineapples.....	-	-	-	-
Chat.....	**18,482**	**4,972.67**	**72,901.34**	**14.66**
Coffee.....	**-**	**-**	**-**	**-**
Hops.....	**-**	**-**	**-**	**-**
Sugar Cane.....	**-**	**-**	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 8.3 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Liben

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**23,374**	**6,150.71**	**129,781.10**	**21.10**
Cereals.....	**21,750**	**5,622.10**	**121,315.17**	
Teff.....	*	-	-	-
Barley.....	-	-	-	-
Wheat.....	-	-	-	-
Maize.....	21,456	5,564.39	120,160.85	21.59
Sorghum.....	*	*	*	*
Finger millet.....	-	-	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	**5,250**	**528.60**	*	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	5,250	528.60	*	*
Chick-peas.....	-	-	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	-	-	-	
Neug.....	-	-	-	-
Linseed.....	-	-	-	-
Groundnuts.....	-	-	-	-
Safflower.....	-	-	-	-
Sesame.....	-	-	-	-
Rape seed.....	-	-	-	-
Vegetables.....	**3,858**	**275.27**	*	
Lettuce.....	-	-	-	-
Head Cabbage.....	-	-	-	-
Ethiopian Cabbage.....	-	-	-	-
Tomatoes.....	3,858	268.44	1,213.49	4.52
Green peppers.....	*	*	*	*
Red peppers.....	-	-	-	-
Swiss chard.....	-	-	-	-
Root Crops.....	**3,507**	*	*	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	*	*	*	*
Potatoes.....	-	-	-	-
Garlic.....	-	-	-	-
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	-	-
Fruit Crops.....	**2,521**	*	*	*
Avocados.....	-	-	-	-
Bananas.....	*	*	*	*
Guavas.....	*	*	-	-
Lemons.....	*	*	*	*
Mangoes.....	*	*	*	*
Oranges.....	-	-	-	-
Papayas.....	*	*	*	*
Pineapples.....	-	-	-	-
Chat.....	-	-	-	-
Coffee.....	-	-	-	-
Hops.....	-	-	-	-
Sugar Cane.....	*	*	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 9 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Benishangul-Gumuz Region

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**256,055**	**243,931.23**	**4,420,519.00**	**18.12**
Cereals.....	**252,360**	**167,390.12**	**3,398,332.72**	
Teff.....	44,217	19,389.08	197,194.05	10.17
Barley.....	7,009	723.21	7,877.64	10.89
Wheat.....	6,568	1,770.90	29,460.56	16.64
Maize.....	226,557	49,476.37	1,454,544.88	29.40
Sorghum.....	162,388	65,933.36	1,309,957.16	19.87
Finger millet.....	67,793	29,114.90	365,682.81	12.56
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	*	*
Pulses.....	**96,371**	**24,703.72**	**447,663.34**	
Faba beans..... .	8,800	725.87	9,771.07	13.46
Field peas.....	4,521	887.35	*	*
Haricot beans.....	53,332	7,749.14	88,505.37	11.42
Chick-peas.....	9,185	853.24	5,647.08	6.62
Lentils.....	*	*	-	-
Grass Peas.....	*	*	-	-
Soya beans.....	31,337	14,390.24	333,665.13	23.19
Fenugreek.....	*	*	*	*
Gibto.....	*	*	*	*
Oilseeds.....	**139,663**	**51,837.39**	**574,522.93**	
Neug.....	34,642	9,066.10	45,499.88	5.02
Linseed.....	15,986	676.57	3,792.29	5.61
Groundnuts.....	62,326	23,144.53	380,126.69	16.42
Safflower.....	*	*	*	*
Sesame.....	67,909	18,485.98	137,034.79	7.41
Rape seed.....	4,773	109.60	1,383.33	12.62
Vegetables.....	**74,943**	**3,427.09**	**43,275.03**	
Lettuce.....	*	*	*	*
Head Cabbage.....	3,308	14.13	1,101.81	77.98
Ethiopian Cabbage.....	7,705	76.25	1,337.63	17.54
Tomatoes.....	2,315	*	*	*
Green peppers.....	8,914	54.57	*	*
Red peppers.....	60,763	3,276.56	38,587.06	11.78
Swiss chard.....	*	*	-	-
Root Crops.....	**55,935**	**1,239.08**	**189,950.91**	
Beetroot.....	2,463	3.16	*	*
Carrot.....	1,639	1.70	*	*
Onion.....	11,068	119.56	12,936.96	108.20
Potatoes.....	8,067	*	*	*
Garlic.....	12,526	106.35	*	*
Taro/'Godere'.....	5,600	41.54	12,638.05	304.24
Sweet potatoes.....	33,093	458.28	60,812.94	132.70
Fruit Crops.....	**80,304**	**1,190.23**	**81,473.45**	**68.45**
Avocados.....	1,330	4.00	*	*
Bananas.....	27,971	340.19	23,957.34	70.42
Guavas.....	6,667	*	*	*
Lemons.....	7,297	32.13	1,202.00	37.41
Mangoes.....	56,856	652.56	51,411.10	78.78
Oranges.....	8,216	70.28	*	*
Papayas.....	12,058	32.01	2,592.59	80.99
Pineapples.....	-	-	-	-
Chat.....	**18,092**	**840.66**	**11,020.58**	**13.11**
Coffee.....	**27,438**	**860.27**	**2,391.28**	**2.78**
Hops.....	**9,844**	**44.86**	**-**	**-**
Sugar Cane.....	**6,961**	**138.16**	**10,344.18**	**74.87**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 9.1 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Metekel

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**118,465**	**147,436.78**	**2,652,353.31**	**17.99**
Cereals.....	**115,364**	**95,436.77**	**1,820,791.51**	
Teff.....	25,342	15,559.52	161,567.65	10.38
Barley.....	5,623	646.55	7,306.28	11.30
Wheat.....	5,069	1,641.42	27,856.16	16.97
Maize.....	98,313	22,247.51	649,540.10	29.20
Sorghum.....	55,880	28,745.17	609,174.42	21.19
Finger millet.....	46,494	25,653.78	331,928.39	12.94
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	*	*
Pulses.....	**52,337**	**16,901.45**	**349,217.42**	
Faba beans..... .	8,159	697.47	9,562.07	13.71
Field peas.....	4,169	878.31	*	*
Haricot beans.....	27,722	5,023.13	59,726.66	11.89
Chick-peas.....	*	*	*	*
Lentils.....	*	*	-	-
Grass Peas.....	*	*	-	-
Soya beans.....	14,044	*	*	*
Fenugreek.....	-	-	-	-
Gibto.....	*	*	*	*
Oilseeds.....	**71,492**	**35,098.56**	**482,344.38**	
Neug.....	6,221	2,704.76	16,513.55	6.11
Linseed.....	2,682	242.85	*	*
Groundnuts.....	40,532	21,965.61	367,249.00	16.72
Safflower.....	*	*	*	*
Sesame.....	36,998	9,808.21	88,970.93	9.07
Rape seed.....	3,467	66.56	*	*
Vegetables.....	**34,676**	**798.94**	**-**	
Lettuce.....	-	-	-	-
Head Cabbage.....	716	*	-	-
Ethiopian Cabbage.....	1,711	*	-	-
Tomatoes.....	*	*	-	-
Green peppers.....	4,976	21.84	-	-
Red peppers.....	29,150	757.64	-	-
Swiss chard.....	-	-	-	-
Root Crops.....	**20,398**	**714.22**	*	
Beetroot.....	*	*	-	-
Carrot.....	*	*	-	-
Onion.....	2,881	17.20	-	-
Potatoes.....	7,009	*	*	*
Garlic.....	10,382	103.43	-	-
Taro/'Godere'.....	*	*	*	*
Sweet potatoes.....	5,789	87.72	12,544.67	143.01
Fruit Crops.....	**22,091**	**241.75**	**-**	**-**
Avocados.....	*	*	-	-
Bananas.....	5,349	56.08	-	-
Guavas.....	*	*	-	-
Lemons.....	2,864	7.70	-	-
Mangoes.....	15,739	129.65	-	-
Oranges.....	*	*	-	-
Papayas.....	7,007	18.28	-	-
Pineapples.....	-	-	-	-
Chat.....	**2,486**	*	**-**	**-**
Coffee.....	*	*	**-**	**-**
Hops.....	**5,865**	**29.85**	**-**	**-**
Sugar Cane.....	*	*	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 9.2 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Asosa

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**99,954**	**55,973.37**	**975,451.47**	**17.43**
Cereals.....	**99,613**	**43,841.88**	**893,705.15**	
Teff.....	14,170	2,774.39	30,511.98	11.00
Barley.....	-	-	-	-
Wheat.....	-	-	-	-
Maize.....	93,026	14,940.27	439,665.34	29.43
Sorghum.....	78,541	23,697.95	401,850.25	16.96
Finger millet.....	15,026	2,417.41	21,659.80	8.96
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	*	*
Pulses.....	**28,039**	**3,852.25**	**36,132.67**	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	11,861	*	*	*
Chick-peas.....	6,575	518.62	3,207.07	6.18
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	15,106	2,139.13	20,960.91	9.80
Fenugreek.....	*	*	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**45,528**	**8,279.24**	**45,613.65**	
Neug.....	21,505	5,474.93	24,546.36	4.48
Linseed.....	8,967	290.70	982.72	3.38
Groundnuts.....	15,968	898.72	10,355.06	11.52
Safflower.....	*	*	*	*
Sesame.....	16,098	1,590.31	9,607.55	6.04
Rape seed.....	*	*	*	*
Vegetables.....	**28,277**	*	*	
Lettuce.....	*	*	-	-
Head Cabbage.....	2,104	8.20	893.46	108.96
Ethiopian Cabbage.....	3,727	*	*	*
Tomatoes.....	*	*	*	*
Green peppers.....	973	*	-	-
Red peppers.....	24,414	*	*	*
Swiss chard.....	*	*	-	-
Root Crops.....	**21,475**	**310.44**	**40,380.82**	
Beetroot.....	1,175	1.69	*	*
Carrot.....	*	*	-	-
Onion.....	4,829	*	*	*
Potatoes.....	*	*	*	*
Garlic.....	1,393	*	-	-
Taro/'Godere'.....	1,338	*	*	*
Sweet potatoes.....	17,013	235.50	30,144.57	128.00
Fruit Crops.....	**47,786**	**760.83**	**68,255.69**	**89.71**
Avocados.....	1,077	*	*	*
Bananas.....	17,354	214.77	18,117.63	84.36
Guavas.....	5,221	*	*	*
Lemons.....	3,903	22.69	1,158.47	51.06
Mangoes.....	35,901	440.24	46,026.87	104.55
Oranges.....	4,310	*	*	*
Papayas.....	3,731	6.00	1,141.12	190.19
Pineapples.....	-	-	-	-
Chat.....	**9,510**	*	*	*
Coffee.....	**15,811**	**161.22**	**1,072.76**	**6.65**
Hops.....	**3,979**	**15.01**	**-**	**-**
Sugar Cane.....	**4,492**	**81.98**	**6,773.48**	**82.62**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 9.3 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Kemashi

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**22,013**	**31,451.50**	**624,813.53**	**19.87**
Cereals.....	**21,793**	**20,872.35**	**527,973.05**	
Teff.....	2,165	687.01	3,054.04	4.45
Barley.....	*	*	-	-
Wheat.....	*	*	-	-
Maize.....	19,958	8,720.49	270,669.11	31.04
Sorghum.....	17,125	11,037.43	249,802.21	22.63
Finger millet.....	1,748	392.54	4,298.86	10.95
Oats/'Aja'.....	*	*	*	*
Rice.....	-	-	-	-
Pulses.....	**9,682**	**3,558.27**	*	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	9,011	1,235.05	13,105.00	10.61
Chick-peas.....	*	*	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	*	*
Fenugreek.....	-	-	-	-
Gibto.....	*	*	-	-
Oilseeds.....	**13,147**	**7,020.87**	**38,917.37**	
Neug.....	2,892	250.24	1,088.46	4.35
Linseed.....	*	*	*	*
Groundnuts.....	2,274	*	*	*
Safflower.....	*	*	*	*
Sesame.....	11,898	6,607.53	36,321.26	5.50
Rape seed.....	-	-	-	-
Vegetables.....	**7,765**	*	**12,921.71**	
Lettuce.....	*	*	*	*
Head Cabbage.....	379	*	*	*
Ethiopian Cabbage.....	*	*	*	*
Tomatoes.....	166	*	-	-
Green peppers.....	*	*	*	*
Red peppers.....	5,682	*	11,032.51	*
Swiss chard.....	*	*	-	-
Root Crops.....	**6,066**	**73.48**	**10,496.43**	
Beetroot.....	*	*	*	*
Carrot.....	677	0.71	*	*
Onion.....	1,903	*	*	*
Potatoes.....	209	*	*	*
Garlic.....	495	0.36	*	*
Taro/'Godere'.....	*	*	*	*
Sweet potatoes.....	4,313	55.85	7,985.86	142.99
Fruit Crops.....	**3,974**	**47.86**	**3,012.65**	**62.95**
Avocados.....	-	-	-	-
Bananas.....	1,549	20.58	1,666.70	80.99
Guavas.....	*	*	-	-
Lemons.....	370	*	*	*
Mangoes.....	2,198	20.33	234.81	11.55
Oranges.....	221	*	*	*
Papayas.....	*	*	*	*
Pineapples.....	-	-	-	-
Chat.....	*	*	-	-
Coffee.....	*	*	*	*
Hops.....	-	-	-	-
Sugar Cane.....	*	*	*	*

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 9.4 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Mao Komo

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**15,623**	**9,069.58**	**167,900.69**	**18.51**
Cereals.....	**15,590**	**7,239.11**	**155,863.02**	
Teff.....	2,541	368.16	2,060.38	5.60
Barley.....	1,228	72.41	571.36	7.89
Wheat.....	1,208	121.39	1,604.40	13.22
Maize.....	15,260	3,568.10	94,670.34	26.53
Sorghum.....	10,842	2,452.81	49,130.29	20.03
Finger millet.....	4,526	651.18	7,795.76	11.97
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	*	*
Pulses.....	**6,314**	**391.75**	**4,390.14**	
Faba beans..... .	641	28.40	209.00	7.36
Field peas.....	352	*	*	*
Haricot beans.....	4,738	303.49	3,709.03	12.22
Chick-peas.....	610	22.17	141.76	6.39
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	939	27.44	273.54	9.97
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**9,496**	**1,438.72**	**7,647.53**	
Neug.....	4,024	636.18	3,351.51	5.27
Linseed.....	4,242	141.88	525.82	3.71
Groundnuts.....	3,553	144.07	1,080.85	7.50
Safflower.....	*	*	-	-
Sesame.....	2,916	479.93	2,135.04	4.45
Rape seed.....	995	*	*	*
Vegetables.....	**4,225**	**67.83**	**2,192.41**	
Lettuce.....	*	*	-	-
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	1,848	*	*	*
Tomatoes.....	405	1.05	38.20	36.38
Green peppers.....	1,254	*	*	*
Red peppers.....	1,518	27.06	562.41	20.78
Swiss chard.....	*	*	-	-
Root Crops.....	**7,996**	**140.95**	**22,677.70**	
Beetroot.....	*	*	-	-
Carrot.....	-	-	-	-
Onion.....	1,455	34.07	4,363.81	128.08
Potatoes.....	*	*	*	*
Garlic.....	256	*	*	*
Taro/'Godere'.....	2,335	26.10	7,986.94	306.01
Sweet potatoes.....	5,979	79.20	10,137.83	128.00
Fruit Crops.....	**6,454**	**139.80**	**10,205.11**	**73.00**
Avocados.....	*	*	-	-
Bananas.....	3,719	48.76	4,173.01	85.58
Guavas.....	-	-	-	-
Lemons.....	159	*	*	*
Mangoes.....	3,019	62.35	5,149.43	82.59
Oranges.....	2,660	25.83	496.63	19.23
Papayas.....	780	2.31	370.55	160.41
Pineapples.....	-	-	-	-
Chat.....	**6,034**	**583.78**	**9,379.29**	**16.07**
Coffee.....	**4,992**	**467.43**	**1,317.62**	**2.82**
Hops.....	**-**	**-**	**-**	**-**
Sugar Cane.....	**325**	*	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 10 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

S.N.N.P. Region

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**3,065,583**	**1,092,583.61**	**20,832,698.65**	**19.07**
Cereals.....	**2,715,674**	**866,341.31**	**17,918,342.74**	
Teff.....	883,659	202,375.61	2,515,409.23	12.43
Barley.....	769,481	82,040.19	1,314,679.86	16.02
Wheat.....	705,476	138,351.34	3,022,336.80	21.85
Maize.....	1,741,462	305,204.64	8,718,901.74	28.57
Sorghum.....	788,999	131,516.72	2,245,193.80	17.07
Finger millet.....	68,786	4,873.12	57,040.20	11.71
Oats/'Aja'.....	14,965	504.70	4,014.05	7.95
Rice.....	6,450	*	*	*
Pulses.....	**2,017,608**	**219,357.44**	**2,866,519.91**	
Faba beans..... .	893,303	72,520.46	1,137,129.34	15.68
Field peas.....	463,226	52,124.96	651,049.80	12.49
Haricot beans.....	1,157,949	86,978.86	995,351.84	11.44
Chick-peas.....	52,190	5,896.30	66,363.02	11.26
Lentils.....	23,670	684.56	5,617.73	8.21
Grass Peas.....	6,754	*	*	*
Soya beans.....	6,717	144.41	*	*
Fenugreek.....	36,277	307.08	2,234.69	7.28
Gibto.....	1,666	*	*	*
Oilseeds.....	**151,377**	**6,884.85**	**47,836.00**	
Neug.....	*	*	*	*
Linseed.....	61,375	1,223.84	7,065.31	5.77
Groundnuts.....	12,870	547.15	4,457.15	8.15
Safflower.....	8,020	189.95	3,257.91	17.15
Sesame.....	9,743	*	*	*
Rape seed.....	54,535	1,266.22	8,274.17	6.53
Vegetables.....	**2,173,811**	**45,966.50**	**3,386,919.36**	
Lettuce.....	5,989	10.48	-	-
Head Cabbage.....	99,542	773.65	55,613.01	71.88
Ethiopian Cabbage.....	1,995,023	22,998.85	2,487,871.80	108.17
Tomatoes.....	38,264	811.93	*	*
Green peppers.....	254,069	1,276.97	111,086.02	86.99
Red peppers.....	235,376	20,061.93	695,668.02	34.68
Swiss chard.....	12,787	32.69	-	-
Root Crops.....	**1,902,698**	**74,939.97**	**17,019,766.33**	
Beetroot.....	103,781	465.34	42,882.26	92.15
Carrot.....	53,103	172.64	7,308.12	42.33
Onion.....	134,339	1,410.95	74,405.25	52.73
Potatoes.....	416,959	11,842.75	2,126,006.35	179.52
Garlic.....	191,439	1,143.47	127,953.41	111.90
Taro/'Godere'.....	1,071,988	35,688.12	9,808,667.03	274.84
Sweet potatoes.....	767,109	24,216.69	4,832,543.90	199.55
Fruit Crops.....	**1,713,235**	**34,299.50**	**3,069,407.72**	**89.49**
Avocados.....	821,539	6,001.00	247,555.15	41.25
Bananas.....	1,196,287	22,770.21	2,149,445.09	94.40
Guavas.....	58,427	196.87	1,695.71	8.61
Lemons.....	45,258	141.11	8,364.00	59.27
Mangoes.....	383,312	3,375.89	343,910.27	101.87
Oranges.....	136,865	629.69	90,249.56	143.32
Papayas.....	231,078	1,040.03	225,750.73	217.06
Pineapples.....	23,818	144.71	*	*
Chat.....	**754,388**	**35,593.11**	**429,803.79**	**12.08**
Coffee.....	**2,142,007**	**140,093.11**	**1,620,721.62**	**11.57**
Hops.....	**177,556**	**1,274.82**	**1,514.95**	**1.19**
Sugar Cane.....	**622,128**	**12,014.32**	**6,454,540.36**	**537.24**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	93,095,830	**9,016,370.23**	**10,616,217.28**	**367,343.28**	**0.10**	**0.11**	*

Table 10.1 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Gurage

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**259,708**	**110,194.12**	**2,390,179.02**	**21.69**
Cereals.....	**254,271**	**95,998.52**	**2,187,006.84**	
Teff.....	84,667	33,180.29	427,605.40	12.89
Barley.....	108,730	13,424.73	310,435.11	23.12
Wheat.....	101,051	17,201.52	378,781.30	22.02
Maize.....	127,141	27,058.99	990,184.81	36.59
Sorghum.....	30,272	*	*	*
Finger millet.....	*	*	-	-
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	-	-
Pulses.....	**132,565**	**12,018.95**	**191,099.81**	
Faba beans..... .	114,245	4,974.34	94,561.13	19.01
Field peas.....	28,798	3,009.93	*	*
Haricot beans.....	20,595	797.71	9,080.23	11.38
Chick-peas.....	11,166	*	*	*
Lentils.....	*	*	*	*
Grass Peas.....	*	*	*	*
Soya beans.....	-	-	-	-
Fenugreek.....	*	*	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**18,029**	*	*	
Neug.....	*	*	*	*
Linseed.....	*	*	*	*
Groundnuts.....	-	-	-	-
Safflower.....	*	*	*	*
Sesame.....	-	-	-	-
Rape seed.....	*	*	*	*
Vegetables.....	**206,730**	**7,524.60**	**447,753.65**	
Lettuce.....	*	*	-	-
Head Cabbage.....	26,326	94.71	*	*
Ethiopian Cabbage.....	187,683	3,156.36	297,299.22	94.19
Tomatoes.....	*	*	-	-
Green peppers.....	11,089	15.54	*	*
Red peppers.....	*	*	*	*
Swiss chard.....	7,932	14.80	-	-
Root Crops.....	**120,029**	**2,436.14**	**357,433.76**	
Beetroot.....	9,460	9.50	1,020.93	107.47
Carrot.....	19,306	*	*	*
Onion.....	22,343	*	-	-
Potatoes.....	40,490	*	*	*
Garlic.....	41,871	*	*	*
Taro/'Godere'.....	40,196	520.69	152,561.07	293.00
Sweet potatoes.....	*	*	-	-
Fruit Crops.....	**104,574**	**856.89**	**82,908.17**	**96.75**
Avocados.....	66,242	287.85	13,283.94	46.15
Bananas.....	33,410	197.22	27,682.57	140.36
Guavas.....	4,326	*	-	-
Lemons.....	9,234	31.58	781.13	24.73
Mangoes.....	12,860	53.44	5,451.39	102.01
Oranges.....	33,625	195.57	21,455.85	109.71
Papayas.....	22,515	62.86	14,253.30	226.75
Pineapples.....	*	*	-	-
Chat.....	**100,230**	**4,840.43**	**56,089.02**	**11.59**
Coffee.....	**124,153**	**3,720.82**	**8,714.13**	**2.34**
Hops.....	**34,398**	**366.82**	**-**	**-**
Sugar Cane.....	**16,554**	*	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	2,080,555	**293,220.91**	**282,975.71**	**11,952.71**	**0.14**	**0.14**	**0.01**

Table 10.2 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Hadiya

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**277,662**	**124,689.68**	**2,552,817.58**	**20.47**
Cereals.....	**270,184**	**107,707.40**	**2,283,921.52**	
Teff.....	134,158	30,469.14	373,626.15	12.26
Barley.....	66,596	5,231.07	91,232.24	17.44
Wheat.....	157,164	39,701.73	1,035,271.60	26.08
Maize.....	181,579	24,125.09	642,642.48	26.64
Sorghum.....	102,002	7,671.22	138,078.67	18.00
Finger millet.....	*	*	3,070.38	*
Oats/'Aja'.....	*	*	-	-
Rice.....	-	-	-	-
Pulses.....	**147,889**	**16,197.55**	**263,997.63**	
Faba beans..... .	92,108	9,300.71	175,603.96	18.88
Field peas.....	34,919	3,171.43	57,291.00	18.06
Haricot beans.....	57,299	3,475.22	*	*
Chick-peas.....	1,826	*	*	*
Lentils.....	3,523	61.06	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**24,465**	**784.73**	**4,898.44**	
Neug.....	*	*	-	-
Linseed.....	8,514	227.38	1,687.61	7.42
Groundnuts.....	-	-	-	-
Safflower.....	-	-	-	-
Sesame.....	-	-	-	-
Rape seed.....	16,750	*	*	*
Vegetables.....	**253,372**	**5,936.82**	**398,562.19**	
Lettuce.....	*	*	-	-
Head Cabbage.....	11,987	*	*	*
Ethiopian Cabbage.....	247,127	3,126.70	337,148.40	107.83
Tomatoes.....	10,229	*	*	*
Green peppers.....	19,469	*	-	-
Red peppers.....	38,737	2,465.81	39,104.63	15.86
Swiss chard.....	*	*	-	-
Root Crops.....	**128,368**	**3,734.46**	**940,772.71**	
Beetroot.....	41,559	134.40	16,083.33	119.67
Carrot.....	5,764	9.34	*	*
Onion.....	6,810	7.20	*	*
Potatoes.....	44,665	1,335.63	272,467.95	204.00
Garlic.....	6,398	*	673.10	*
Taro/'Godere'.....	49,903	2,169.77	650,931.52	300.00
Sweet potatoes.....	7,766	72.82	-	-
Fruit Crops.....	**142,962**	**1,867.77**	**159,625.48**	**85.46**
Avocados.....	75,527	423.47	-	-
Bananas.....	97,539	1,300.12	152,653.29	117.41
Guavas.....	3,856	*	-	-
Lemons.....	2,217	*	-	-
Mangoes.....	17,498	75.12	*	*
Oranges.....	3,929	22.00	742.32	33.74
Papayas.....	13,970	36.17	*	*
Pineapples.....	-	-	-	-
Chat.....	**43,725**	**775.25**	**5,919.42**	**7.64**
Coffee.....	**123,994**	**5,576.08**	**31,438.91**	**5.64**
Hops.....	**20,025**	**35.17**	**-**	**-**
Sugar Cane.....	**57,943**	**1,461.22**	**758,590.84**	**519.15**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	2,939,746	**303,773.74**	**329,195.24**	**23,624.00**	**0.10**	**0.11**	**0.01**

Table 10.3 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Kembata - Tembaro

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**122,953**	**35,789.22**	**619,093.35**	**17.30**
Cereals.....	**115,719**	**28,742.32**	**509,831.76**	
Teff.....	51,145	8,466.04	110,110.90	13.01
Barley.....	24,361	1,141.23	16,862.57	14.78
Wheat.....	70,834	13,026.92	243,493.72	18.69
Maize.....	41,312	3,095.72	83,223.01	26.88
Sorghum.....	40,002	2,880.67	54,805.19	19.03
Finger millet.....	3,925	109.87	*	*
Oats/'Aja'.....	822	*	*	*
Rice.....	-	-	-	-
Pulses.....	**88,852**	**6,893.15**	**108,363.86**	
Faba beans..... .	66,960	4,217.42	75,514.23	17.91
Field peas.....	29,096	1,679.76	24,428.96	14.54
Haricot beans.....	33,552	940.42	8,205.86	8.73
Chick-peas.....	*	*	*	*
Lentils.....	*	*	*	*
Grass Peas.....	*	*	-	-
Soya beans.....	*	*	-	-
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**4,603**	**153.76**	**897.73**	
Neug.....	-	-	-	-
Linseed.....	2,003	102.59	*	*
Groundnuts.....	-	-	-	-
Safflower.....	-	-	-	-
Sesame.....	-	-	-	-
Rape seed.....	*	*	*	*
Vegetables.....	**109,574**	**1,734.02**	**156,148.46**	
Lettuce.....	*	*	-	-
Head Cabbage.....	7,649	*	*	*
Ethiopian Cabbage.....	104,247	1,131.50	123,954.00	109.55
Tomatoes.....	*	*	*	*
Green peppers.....	9,395	36.33	*	*
Red peppers.....	7,130	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**93,492**	**3,647.45**	**779,208.62**	
Beetroot.....	11,301	46.50	4,956.96	106.60
Carrot.....	3,343	*	*	*
Onion.....	1,549	9.16	*	*
Potatoes.....	47,820	1,684.28	293,063.95	174.00
Garlic.....	5,814	21.55	2,999.99	139.21
Taro/'Godere'.....	50,863	1,702.48	454,561.13	267.00
Sweet potatoes.....	16,179	153.48	22,100.53	144.00
Fruit Crops.....	**83,879**	**1,769.93**	**122,673.38**	**69.31**
Avocados.....	59,486	400.02	-	-
Bananas.....	61,672	1,204.20	104,974.22	87.17
Guavas.....	*	*	-	-
Lemons.....	*	*	*	*
Mangoes.....	23,452	121.19	14,253.11	117.61
Oranges.....	7,562	29.12	1,451.54	49.85
Papayas.....	4,055	10.36	*	*
Pineapples.....	-	-	-	-
Chat.....	**10,538**	*	*	*
Coffee.....	**76,521**	**2,854.40**	**6,478.46**	**2.27**
Hops.....	**12,751**	**37.69**	**-**	**-**
Sugar Cane.....	**30,475**	**397.82**	**148,336.44**	**372.87**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	*	*	*	*	*	*	*

Table 10.4 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Sidama

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**681,031**	**76,966.20**	**1,749,325.88**	**22.73**
Cereals.....	**498,475**	**49,850.30**	**1,328,519.51**	
Teff.....	25,673	*	*	*
Barley.....	113,172	11,267.60	203,740.60	18.08
Wheat.....	19,114	*	46,757.16	*
Maize.....	416,241	30,559.37	1,008,952.98	33.02
Sorghum.....	32,003	1,042.49	*	*
Finger millet.....	*	*	*	*
Oats/'Aja'.....	*	*	*	*
Rice.....	-	-	-	-
Pulses.....	**466,906**	**26,948.16**	**420,671.51**	
Faba beans..... .	137,870	6,134.23	147,953.73	24.12
Field peas.....	18,690	739.07	*	*
Haricot beans.....	320,590	19,943.31	258,332.08	12.95
Chick-peas.....	*	*	*	*
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**7,440**	*****	*****	
Neug.....	-	-	-	-
Linseed.....	4,109	*	*	*
Groundnuts.....	*	*	-	-
Safflower.....	-	-	-	-
Sesame.....	*	*	-	-
Rape seed.....	*	*	*	*
Vegetables.....	**567,571**	**7,764.41**	**780,160.46**	
Lettuce.....	-	-	-	-
Head Cabbage.....	9,272	*	*	*
Ethiopian Cabbage.....	531,786	6,346.07	699,501.66	110.23
Tomatoes.....	-	-	-	-
Green peppers.....	57,081	497.29	53,492.09	107.57
Red peppers.....	*	*	*	*
Swiss chard.....	*	*	-	-
Root Crops.....	**309,653**	**6,366.83**	**801,658.52**	
Beetroot.....	6,175	*	*	*
Carrot.....	7,682	*	*	*
Onion.....	*	*	-	-
Potatoes.....	61,916	1,125.34	158,673.48	141.00
Garlic.....	25,279	148.88	22,834.36	153.37
Taro/'Godere'.....	35,767	376.77	37,676.56	100.00
Sweet potatoes.....	203,943	4,652.25	581,531.85	125.00
Fruit Crops.....	**417,388**	**5,631.72**	**575,951.50**	**102.27**
Avocados.....	188,796	1,185.91	*	*
Bananas.....	322,265	3,940.64	396,578.26	100.64
Guavas.....	20,159	74.39	1,310.29	17.61
Lemons.....	*	*	-	-
Mangoes.....	18,085	*	*	*
Oranges.....	*	*	*	*
Papayas.....	*	*	*	*
Pineapples.....	*	*	*	*
Chat.....	**369,311**	**22,843.15**	**268,394.40**	**11.75**
Coffee.....	**653,921**	**47,915.78**	**686,128.63**	**14.32**
Hops.....	**13,838**	*****	**-**	**-**
Sugar Cane.....	**209,649**	**5,818.17**	**3,685,875.08**	**633.51**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	70,941,701	**6,443,369.52**	**6,877,115.54**	**260,247.64**	**0.09**	**0.10**	*****

Table 10.5 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Gedio

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**88,327**	**10,972.76**	**206,464.39**	**18.82**
Cereals.....	**73,414**	**8,734.83**	**179,017.30**	
Teff.....	*	*	*	*
Barley.....	27,675	2,547.96	30,512.09	11.98
Wheat.....	10,062	*	*	*
Maize.....	53,691	4,874.46	128,767.98	26.42
Sorghum.....	3,853	*	*	*
Finger millet.....	-	-	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	**42,800**	**2,209.91**	**27,344.75**	
Faba beans..... .	24,556	1,723.59	22,469.55	13.04
Field peas.....	1,984	117.51	924.20	7.86
Haricot beans.....	19,645	334.91	3,303.27	9.86
Chick-peas.....	*	*	*	*
Lentils.....	*	*	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	-	-
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**1,730**	*	*	
Neug.....	-	-	-	-
Linseed.....	1,730	*	*	*
Groundnuts.....	-	-	-	-
Safflower.....	-	-	-	-
Sesame.....	-	-	-	-
Rape seed.....	-	-	-	-
Vegetables.....	**96,105**	**915.75**	**97,723.82**	
Lettuce.....	*	*	-	-
Head Cabbage.....	*	*	-	-
Ethiopian Cabbage.....	88,380	869.62	93,966.54	108.05
Tomatoes.....	*	*	*	*
Green peppers.....	16,608	41.89	3,598.70	85.91
Red peppers.....	*	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**65,558**	**1,218.37**	**159,656.69**	
Beetroot.....	*	*	*	*
Carrot.....	*	*	-	-
Onion.....	*	*	-	-
Potatoes.....	1,922	*	-	-
Garlic.....	2,283	3.44	291.95	84.87
Taro/'Godere'.....	50,644	886.44	127,647.32	144.00
Sweet potatoes.....	20,188	308.17	31,433.43	102.00
Fruit Crops.....	**80,204**	**2,235.25**	**83,598.76**	**37.40**
Avocados.....	63,692	860.58	-	-
Bananas.....	42,638	1,270.20	74,084.41	58.32
Guavas.....	*	*	*	*
Lemons.....	*	*	*	*
Mangoes.....	*	*	*	*
Oranges.....	*	*	*	*
Papayas.....	*	*	*	*
Pineapples.....	*	*	*	*
Chat.....	**7,436**	*	*	*
Coffee.....	**147,939**	**24,160.03**	**232,390.75**	**9.62**
Hops.....	**6,108**	*	*	**-**
Sugar Cane.....	**14,598**	*	*	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	6,850,433	**1,183,864.55**	**1,300,407.41**	**20,740.81**	**0.17**	**0.19**	*

Table 10.6 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Wolayita

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**301,004**	**73,595.05**	**1,096,987.76**	**14.91**
Cereals.....	**246,834**	**44,253.99**	**806,276.87**	
Teff.....	106,848	17,968.91	209,245.03	11.64
Barley.....	11,288	420.00	4,846.84	11.54
Wheat.....	35,790	*	*	*
Maize.....	181,873	19,139.91	492,410.52	25.73
Sorghum.....	50,570	2,472.31	32,745.02	13.24
Finger millet.....	*	*	*	*
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	-	-
Pulses.....	**264,480**	**29,158.68**	**289,021.04**	
Faba beans..... .	43,636	2,254.27	22,085.65	9.80
Field peas.....	69,645	*	*	*
Haricot beans.....	239,133	19,768.25	198,585.93	10.05
Chick-peas.....	19,290	1,394.36	9,251.52	6.63
Lentils.....	*	*	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	*	*
Fenugreek.....	-	-	-	-
Gibto.....	*	*	-	-
Oilseeds.....	**7,518**	**182.38**	*	
Neug.....	-	-	-	-
Linseed.....	1,718	*	*	*
Groundnuts.....	4,973	*	*	*
Safflower.....	-	-	-	-
Sesame.....	-	-	-	-
Rape seed.....	*	*	-	-
Vegetables.....	**161,257**	**1,183.10**	**116,044.99**	
Lettuce.....	-	-	-	-
Head Cabbage.....	8,844	*	*	*
Ethiopian Cabbage.....	137,301	706.54	89,970.26	127.34
Tomatoes.....	*	*	-	-
Green peppers.....	49,135	139.93	11,175.18	79.86
Red peppers.....	13,383	174.36	3,274.65	18.78
Swiss chard.....	*	*	-	-
Root Crops.....	**283,111**	**16,204.12**	**4,536,838.99**	
Beetroot.....	*	*	*	*
Carrot.....	1,630	*	-	-
Onion.....	5,734	9.41	-	-
Potatoes.....	63,751	1,610.30	322,060.30	200.00
Garlic.....	2,593	*	*	*
Taro/'Godere'.....	234,444	8,354.07	2,731,781.83	327.00
Sweet potatoes.....	196,977	6,117.81	1,474,392.62	241.00
Fruit Crops.....	**263,303**	**4,877.65**	**456,645.03**	**93.62**
Avocados.....	181,145	1,354.31	111,537.41	82.36
Bananas.....	190,002	2,188.18	202,780.46	92.67
Guavas.....	13,292	27.66	*	*
Lemons.....	9,287	14.04	994.28	70.82
Mangoes.....	131,667	1,152.25	118,060.84	102.46
Oranges.....	28,767	90.68	15,628.65	172.35
Papayas.....	26,009	44.75	7,584.99	169.50
Pineapples.....	4,707	5.78	-	-
Chat.....	**9,937**	*	*	*
Coffee.....	**277,963**	**7,737.64**	**65,608.34**	**8.48**
Hops.....	**14,187**	**27.42**	**-**	**-**
Sugar Cane.....	**84,363**	**1,096.30**	**684,709.61**	**624.56**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	1,113,194	97,591.50	108,890.98	7,139.47	0.09	0.10	0.01

Table 10.7 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

South Omo

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**119,120**	**53,990.36**	**988,962.90**	**18.32**
Cereals.....	**114,809**	**46,383.29**	**901,829.79**	
Teff.....	14,142	3,213.05	36,946.68	11.50
Barley.....	19,851	5,002.13	73,007.14	14.60
Wheat.....	9,147	1,118.98	14,419.09	12.89
Maize.....	75,539	19,896.48	485,780.71	24.42
Sorghum.....	63,354	16,878.42	289,043.44	17.13
Finger millet.....	2,311	*	*	*
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	-	-
Pulses.....	**57,864**	**6,053.88**	**72,809.29**	
Faba beans..... .	18,459	1,901.86	20,664.57	10.87
Field peas.....	10,840	*	*	*
Haricot beans.....	36,844	2,914.85	42,022.02	14.42
Chick-peas.....	-	-	-	-
Lentils.....	*	*	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	*	*	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**13,047**	*	*	
Neug.....	-	-	-	-
Linseed.....	3,160	50.19	205.54	4.10
Groundnuts.....	1,790	*	1,125.52	*
Safflower.....	5,111	151.76	2,927.21	19.29
Sesame.....	*	*	*	*
Rape seed.....	-	-	-	-
Vegetables.....	**37,585**	**575.97**	**54,510.45**	
Lettuce.....	-	-	-	-
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	32,846	454.66	51,577.89	113.44
Tomatoes.....	*	*	-	-
Green peppers.....	2,608	18.26	*	*
Red peppers.....	*	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**64,818**	**3,191.07**	**597,691.82**	
Beetroot.....	*	*	*	*
Carrot.....	660	*	-	-
Onion.....	12,503	106.24	16,577.93	156.04
Potatoes.....	2,945	*	-	-
Garlic.....	5,773	*	*	*
Taro/'Godere'.....	41,034	2,117.06	476,338.20	225.00
Sweet potatoes.....	24,723	763.65	90,110.11	118.00
Fruit Crops.....	**44,830**	**1,121.18**	**175,791.97**	**156.79**
Avocados.....	10,245	94.13	-	-
Bananas.....	34,321	783.23	120,609.33	153.99
Guavas.....	*	*	-	-
Lemons.....	*	*	*	*
Mangoes.....	14,064	112.29	17,754.99	158.12
Oranges.....	*	*	*	*
Papayas.....	10,905	98.19	31,425.70	320.05
Pineapples.....	*	*	*	*
Chat.....	**5,715**	*	*	*
Coffee.....	**41,677**	**3,638.75**	**61,207.86**	**16.82**
Hops.....	**1,355**	**9.47**	**-**	**-**
Sugar Cane.....	**8,599**	**203.00**	**65,835.18**	**324.31**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 10.8 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Sheka

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**42,812**	**15,363.47**	**331,424.99**	**21.57**
Cereals.....	**37,021**	**10,845.16**	**287,017.73**	
Teff.....	7,294	774.11	*	*
Barley.....	3,169	*	*	*
Wheat.....	*	*	*	*
Maize.....	12,168	1,671.36	56,289.01	33.68
Sorghum.....	28,248	7,704.86	210,331.52	27.30
Finger millet.....	-	-	-	-
Oats/'Aja'.....	*	*	-	-
Rice.....	618	*	*	*
Pulses.....	**20,627**	**4,517.27**	**44,407.26**	
Faba beans..... .	8,571	*	*	*
Field peas.....	9,362	2,720.71	26,714.93	9.82
Haricot beans.....	11,789	106.19	1,174.17	11.06
Chick-peas.....	*	*	-	-
Lentils.....	*	*	-	-
Grass Peas.....	*	*	-	-
Soya beans.....	*	*	-	-
Fenugreek.....	-	-	-	-
Gibto.....	*	*	-	-
Oilseeds.....	*	*	-	
Neug.....	-	-	-	-
Linseed.....	-	-	-	-
Groundnuts.....	*	*	-	-
Safflower.....	*	*	-	-
Sesame.....	-	-	-	-
Rape seed.....	*	*	-	-
Vegetables.....	**31,965**	**377.89**	**35,910.20**	
Lettuce.....	*	*	-	-
Head Cabbage.....	1,794	*	*	*
Ethiopian Cabbage.....	25,775	199.77	18,724.36	93.73
Tomatoes.....	*	*	*	*
Green peppers.....	11,727	64.62	7,643.82	118.29
Red peppers.....	1,650	36.10	1,508.40	41.78
Swiss chard.....	*	*	-	-
Root Crops.....	**35,779**	**1,059.96**	**239,409.36**	
Beetroot.....	1,614	*	*	*
Carrot.....	-	-	-	-
Onion.....	4,736	*	*	*
Potatoes.....	2,475	110.05	22,560.73	205.00
Garlic.....	8,271	24.42	2,711.25	111.03
Taro/'Godere'.....	27,636	763.32	190,830.89	250.00
Sweet potatoes.....	2,009	*	*	*
Fruit Crops.....	**33,179**	**505.14**	**68,649.66**	**135.90**
Avocados.....	19,421	112.21	17,939.10	159.87
Bananas.....	14,685	148.40	15,563.87	104.88
Guavas.....	1,353	*	64.24	*
Lemons.....	1,637	2.21	378.13	171.10
Mangoes.....	17,638	141.52	11,112.75	78.52
Oranges.....	8,034	37.36	8,636.60	231.17
Papayas.....	14,193	54.78	14,954.98	273.00
Pineapples.....	950	*	-	-
Chat.....	**3,868**	*	*	*
Coffee.....	**42,842**	**10,073.74**	**102,374.38**	**10.16**
Hops.....	**4,633**	**70.86**	*	*
Sugar Cane.....	**16,058**	**212.92**	**90,622.80**	**425.62**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	*	*	*	*	*	*	*

Table 10.9 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Keffa

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**202,790**	**130,817.62**	**2,190,316.29**	**16.74**
Cereals.....	**184,929**	**93,478.90**	**1,819,343.62**	
Teff.....	113,751	21,506.25	277,304.96	12.89
Barley.....	68,973	10,027.76	133,057.93	13.27
Wheat.....	39,660	8,679.92	*	*
Maize.....	87,562	36,080.52	925,916.99	25.66
Sorghum.....	79,589	16,282.89	305,648.10	18.77
Finger millet.....	7,380	*	7,575.77	*
Oats/'Aja'.....	1,800	*	-	-
Rice.....	*	-	-	-
Pulses.....	**163,944**	**37,043.28**	**369,496.62**	
Faba beans..... .	102,479	17,079.14	164,279.42	9.62
Field peas.....	71,202	14,499.97	142,836.54	9.85
Haricot beans.....	78,975	5,348.47	62,187.36	11.63
Chick-peas.....	*	*	-	-
Lentils.....	*	*	*	*
Grass Peas.....	*	*	-	-
Soya beans.....	*	*	-	-
Fenugreek.....	*	*	*	*
Gibto.....	*	*	-	-
Oilseeds.....	**14,753**	**295.44**	**1,476.04**	
Neug.....	*	*	*	*
Linseed.....	4,908	106.55	312.12	2.93
Groundnuts.....	*	*	-	-
Safflower.....	*	*	*	*
Sesame.....	-	-	-	-
Rape seed.....	7,956	*	*	*
Vegetables.....	**154,385**	**1,492.92**	**145,113.59**	
Lettuce.....	*	*	-	-
Head Cabbage.....	6,003	*	*	*
Ethiopian Cabbage.....	139,541	1,069.47	125,284.95	117.15
Tomatoes.....	*	*	-	-
Green peppers.....	30,495	131.89	13,565.85	102.86
Red peppers.....	15,741	219.63	3,747.34	17.06
Swiss chard.....	*	*	-	-
Root Crops.....	**155,799**	**4,814.88**	**1,152,473.19**	
Beetroot.....	7,840	*	*	*
Carrot.....	*	*	*	*
Onion.....	11,871	*	*	*
Potatoes.....	3,279	41.59	7,901.35	189.98
Garlic.....	33,593	100.11	8,488.49	84.79
Taro/'Godere'.....	128,223	4,326.95	1,090,390.66	252.00
Sweet potatoes.....	14,356	*	*	*
Fruit Crops.....	**88,048**	**1,455.92**	**61,078.17**	**41.95**
Avocados.....	29,735	291.36	-	-
Bananas.....	71,022	1,000.11	49,662.70	49.66
Guavas.....	*	*	-	-
Lemons.....	2,634	5.00	*	*
Mangoes.....	7,373	53.57	*	*
Oranges.....	4,700	10.47	*	*
Papayas.....	14,200	81.02	9,123.44	112.61
Pineapples.....	*	*	-	-
Chat.....	**20,001**	**149.49**	**-**	**-**
Coffee.....	**133,957**	**10,713.60**	**75,954.23**	**7.09**
Hops.....	**14,112**	**51.26**	**-**	**-**
Sugar Cane.....	**48,027**	**398.94**	**111,007.58**	**278.26**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	5,458,172	**272,725.30**	**1,179,616.09**	**23,429.21**	**0.05**	**0.22**	*

Table 10.10 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Gamo Gofa

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**392,559**	**135,717.36**	**2,331,339.62**	**17.18**
Cereals.....	**369,804**	**112,940.32**	**2,040,658.32**	
Teff.....	144,096	29,999.40	430,324.32	14.34
Barley.....	165,584	16,436.58	188,034.27	11.44
Wheat.....	92,698	11,966.42	180,318.30	15.07
Maize.....	154,764	33,519.26	978,909.06	29.20
Sorghum.....	94,304	20,945.53	261,328.24	12.48
Finger millet.....	-	-	-	-
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	*	*
Pulses.....	**264,650**	**22,284.45**	**285,737.50**	
Faba beans..... .	88,809	3,355.89	60,519.56	18.03
Field peas.....	66,789	3,514.54	49,144.21	13.98
Haricot beans.....	167,735	15,035.32	171,360.26	11.40
Chick-peas.....	*	*	*	*
Lentils.....	6,030	76.21	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	-	-
Fenugreek.....	15,093	32.47	210.79	6.49
Gibto.....	-	-	-	-
Oilseeds.....	**21,550**	**492.59**	**4,943.80**	
Neug.....	-	-	-	-
Linseed.....	13,852	141.28	895.11	6.34
Groundnuts.....	3,216	*	*	*
Safflower.....	*	*	*	*
Sesame.....	*	*	*	*
Rape seed.....	-	-	-	-
Vegetables.....	**142,226**	**1,078.90**	**109,337.44**	
Lettuce.....	-	-	-	-
Head Cabbage.....	3,508	5.60	*	*
Ethiopian Cabbage.....	127,756	898.70	103,336.01	114.98
Tomatoes.....	*	*	-	-
Green peppers.....	14,407	96.94	*	*
Red peppers.....	*	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**345,092**	**19,180.39**	**4,128,048.50**	
Beetroot.....	3,463	*	*	*
Carrot.....	*	*	*	*
Onion.....	45,497	210.33	24,088.36	114.53
Potatoes.....	118,307	4,506.26	865,201.16	192.00
Garlic.....	36,467	*	*	*
Taro/'Godere'.....	185,094	3,901.64	912,984.02	234.00
Sweet potatoes.....	217,368	10,375.26	2,303,307.64	222.00
Fruit Crops.....	**181,960**	*	*	*
Avocados.....	24,385	189.71	*	*
Bananas.....	134,191	*	*	*
Guavas.....	*	*	-	-
Lemons.....	9,127	*	*	*
Mangoes.....	70,100	*	*	*
Oranges.....	11,148	20.34	*	*
Papayas.....	34,285	127.56	32,173.68	252.22
Pineapples.....	*	*	*	*
Chat.....	**27,959**	*	*	*
Coffee.....	**218,270**	**5,373.89**	**21,058.99**	**3.92**
Hops.....	**10,065**	**109.63**	**-**	**-**
Sugar Cane.....	**52,667**	**968.66**	**310,579.12**	**320.63**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	*	*	*	*	*	*	*

Table 10.11 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Benchi - Maji

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**98,043**	**40,609.63**	**718,435.60**	**17.69**
Cereals.....	**91,684**	**34,160.61**	**644,277.37**	
Teff.....	17,014	2,818.40	34,553.88	12.26
Barley.....	14,034	2,205.97	24,703.28	11.20
Wheat.....	*	*	*	*
Maize.....	55,766	12,044.67	277,861.32	23.07
Sorghum.....	53,427	14,888.51	259,626.81	17.44
Finger millet.....	*	*	*	*
Oats/'Aja'.....	-	-	-	-
Rice.....	*	*	*	*
Pulses.....	**45,653**	**6,223.42**	**72,005.95**	
Faba beans..... .	17,145	2,458.09	*	*
Field peas.....	16,558	2,541.30	24,522.53	9.65
Haricot beans.....	28,821	*	*	*
Chick-peas.....	-	-	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	*	*	*	
Neug.....	-	-	-	-
Linseed.....	*	*	*	*
Groundnuts.....	*	*	-	-
Safflower.....	-	-	-	-
Sesame.....	*	*	*	*
Rape seed.....	*	*	*	*
Vegetables.....	**77,338**	**970.59**	**79,038.09**	
Lettuce.....	-	-	-	-
Head Cabbage.....	2,171	*	*	*
Ethiopian Cabbage.....	69,195	422.09	50,648.41	119.99
Tomatoes.....	*	*	-	-
Green peppers.....	11,735	24.65	2,622.75	106.40
Red peppers.....	6,341	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**97,085**	**5,217.82**	**1,416,503.61**	
Beetroot.....	*	*	*	*
Carrot.....	*	*	*	*
Onion.....	1,813	*	*	*
Potatoes.....	2,407	*	*	*
Garlic.....	2,959	*	1,105.87	*
Taro/'Godere'.....	94,851	4,930.77	1,380,615.49	280.00
Sweet potatoes.....	7,202	*	*	*
Fruit Crops.....	**78,550**	**2,015.16**	**184,520.76**	**91.57**
Avocados.....	21,620	186.80	-	-
Bananas.....	66,092	1,344.63	119,358.72	88.77
Guavas.....	2,019	*	-	-
Lemons.....	*	*	-	-
Mangoes.....	24,288	291.93	29,803.62	102.09
Oranges.....	7,254	32.93	10,182.49	309.22
Papayas.....	22,981	133.69	25,175.92	188.32
Pineapples.....	1,777	*	-	-
Chat.....	**23,734**	**454.29**	*	*
Coffee.....	**96,040**	**12,923.02**	**286,546.60**	**22.17**
Hops.....	**20,072**	**194.70**	-	-
Sugar Cane.....	**24,911**	**313.19**	**139,635.82**	**445.85**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	989,100	**40,932.79**	**105,817.73**	**871.44**	**0.04**	**0.11**	*

Table 10.12 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Yem Special Wereda

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**21,887**	**21,503.63**	**272,326.09**	**12.66**
Cereals.....	**21,411**	**17,009.31**	**231,016.75**	
Teff.....	16,447	5,965.71	67,438.94	11.30
Barley.....	12,847	1,658.75	17,013.46	10.26
Wheat.....	16,005	5,758.89	92,482.23	16.06
Maize.....	19,373	2,460.66	40,658.32	16.52
Sorghum.....	8,416	1,140.36	13,242.42	11.61
Finger millet.....	*	*	-	-
Oats/'Aja'.....	776	20.04	181.38	9.05
Rice.....	*	*	-	-
Pulses.....	**18,798**	**4,157.53**	**39,681.14**	
Faba beans..... .	14,855	1,996.31	20,304.03	10.17
Field peas.....	10,499	1,979.08	17,730.43	8.96
Haricot beans.....	9,559	61.43	718.76	11.70
Chick-peas.....	*	*	*	*
Lentils.....	2,184	87.25	682.62	7.82
Grass Peas.....	*	*	-	-
Soya beans.....	*	*	*	*
Fenugreek.....	3,367	14.00	51.97	3.71
Gibto.....	-	-	-	-
Oilseeds.....	**8,612**	**336.79**	**1,628.21**	
Neug.....	*	*	*	*
Linseed.....	2,441	191.51	763.37	3.99
Groundnuts.....	*	*	-	-
Safflower.....	*	*	-	-
Sesame.....	-	-	-	-
Rape seed.....	6,935	96.72	693.32	7.17
Vegetables.....	**19,081**	**141.32**	**16,963.58**	
Lettuce.....	*	*	-	-
Head Cabbage.....	2,659	*	*	*
Ethiopian Cabbage.....	18,423	112.17	14,823.58	132.15
Tomatoes.....	701	1.69	-	-
Green peppers.....	5,171	7.10	892.69	125.73
Red peppers.....	638	*	*	*
Swiss chard.....	*	*	-	-
Root Crops.....	**15,826**	**336.81**	**55,591.80**	
Beetroot.....	3,821	8.10	906.76	111.95
Carrot.....	1,713	2.42	261.00	107.85
Onion.....	792	0.99	-	-
Potatoes.....	2,241	*	*	*
Garlic.....	6,643	11.86	1,319.61	111.27
Taro/'Godere'.....	9,259	164.59	21,561.14	131.00
Sweet potatoes.....	7,606	113.13	23,757.11	210.00
Fruit Crops.....	**10,647**	**118.81**	**3,964.63**	**33.37**
Avocados.....	7,578	40.99	1,003.75	24.49
Bananas.....	6,822	59.61	2,373.23	39.81
Guavas.....	1,859	2.88	-	-
Lemons.....	191	*	*	*
Mangoes.....	1,590	5.68	273.54	48.16
Oranges.....	1,713	6.58	276.50	42.02
Papayas.....	613	0.89	27.87	31.31
Pineapples.....	*	*	-	-
Chat.....	**10,702**	**196.56**	**1,976.50**	**10.06**
Coffee.....	**15,584**	**396.45**	**1,626.98**	**4.10**
Hops.....	**5,328**	**19.60**	**637.93**	**32.55**
Sugar Cane.....	**8,546**	**127.35**	**48,880.11**	**383.82**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	136,720	-	35,237.09	1,065.31	-	0.26	0.01

Table 10.13 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Dawro

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**74,970**	**42,363.73**	**778,034.43**	**18.37**
Cereals.....	**62,243**	**25,045.27**	**466,871.92**	
Teff.....	36,920	9,965.91	97,959.63	9.83
Barley.....	10,203	1,195.66	18,354.97	15.35
Wheat.....	12,695	1,736.08	29,010.28	16.71
Maize.....	31,053	7,988.98	245,735.39	30.76
Sorghum.....	25,144	4,032.41	74,466.62	18.47
Finger millet.....	-	-	-	-
Oats/'Aja'.....	2,308	122.82	1,345.02	10.95
Rice.....	*	*	-	-
Pulses.....	**56,641**	**17,108.55**	**309,717.27**	
Faba beans..... .	33,917	7,631.85	150,069.65	19.66
Field peas.....	24,027	6,559.55	117,969.95	17.98
Haricot beans.....	23,260	2,661.36	*	*
Chick-peas.....	851	*	*	*
Lentils.....	4,697	*	2,072.14	*
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	-	-
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**8,030**	**209.91**	**1,445.24**	
Neug.....	-	-	-	-
Linseed.....	6,364	93.82	659.81	7.03
Groundnuts.....	*	*	*	*
Safflower.....	-	-	-	-
Sesame.....	-	-	-	-
Rape seed.....	*	*	*	*
Vegetables.....	**50,668**	**469.27**	**-**	
Lettuce.....	-	-	-	-
Head Cabbage.....	*	*	-	-
Ethiopian Cabbage.....	47,763	437.26	-	-
Tomatoes.....	*	*	-	-
Green peppers.....	4,651	16.66	-	-
Red peppers.....	5,140	12.89	-	-
Swiss chard.....	*	*	-	-
Root Crops.....	**71,975**	**3,505.57**	**1,019,380.37**	
Beetroot.....	*	*	-	-
Carrot.....	*	*	-	-
Onion.....	1,043	4.21	-	-
Potatoes.....	*	*	*	*
Garlic.....	3,544	*	-	-
Taro/'Godere'.....	68,295	3,219.79	985,254.37	306.00
Sweet potatoes.....	12,793	256.72	32,859.67	128.00
Fruit Crops.....	**53,333**	**870.56**	**-**	**-**
Avocados.....	27,953	215.60	-	-
Bananas.....	37,556	478.67	-	-
Guavas.....	*	*	-	-
Lemons.....	1,579	3.74	-	-
Mangoes.....	11,699	74.63	-	-
Oranges.....	4,985	24.77	-	-
Papayas.....	11,505	70.40	-	-
Pineapples.....	-	-	-	-
Chat.....	**2,689**	**10.84**	**-**	**-**
Coffee.....	**55,354**	**1,507.20**	**-**	**-**
Hops.....	**10,621**	**96.56**	**-**	**-**
Sugar Cane.....	**13,608**	**110.12**	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	541,521	**55,495.87**	**80,901.89**	**-**	**0.10**	**0.15**	**-**

Table 10.14 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Basketo Special Wereda

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**16,009**	**3,925.31**	**62,057.16**	**15.81**
Cereals.....	**15,526**	**3,371.99**	**57,881.26**	
Teff.....	6,746	1,115.90	16,216.39	14.53
Barley.....	1,483	112.57	1,333.65	11.85
Wheat.....	*	*	*	*
Maize.....	12,557	1,496.34	31,520.62	21.07
Sorghum.....	6,334	625.30	8,566.08	13.70
Finger millet.....	-	-	-	-
Oats/'Aja'.....	*	*	-	-
Rice.....	-	-	-	-
Pulses.....	**10,186**	**526.65**	**4,048.17**	
Faba beans..... .	1,021	16.00	94.19	5.89
Field peas.....	3,233	152.16	1,325.83	8.71
Haricot beans.....	8,908	356.36	2,616.63	7.34
Chick-peas.....	-	-	-	-
Lentils.....	*	*	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	-	-
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**992**	*	*	
Neug.....	-	-	-	-
Linseed.....	493	10.47	27.59	2.64
Groundnuts.....	*	*	-	-
Safflower.....	348	*	*	*
Sesame.....	-	-	-	-
Rape seed.....	*	*	*	*
Vegetables.....	**7,015**	**74.56**	**7,255.99**	
Lettuce.....	-	-	-	-
Head Cabbage.....	472	*	*	*
Ethiopian Cabbage.....	5,788	58.86	6,362.14	108.09
Tomatoes.....	*	*	-	-
Green peppers.....	284	*	-	-
Red peppers.....	1,190	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**17,516**	**1,183.10**	**302,533.84**	
Beetroot.....	417	*	*	*
Carrot.....	-	-	-	-
Onion.....	734	0.75	90.89	121.19
Potatoes.....	1,706	11.77	-	-
Garlic.....	*	*	*	*
Taro/'Godere'.....	15,696	443.83	128,267.42	289.00
Sweet potatoes.....	13,398	725.21	174,049.34	240.00
Fruit Crops.....	**15,886**	**283.53**	**32,371.03**	**114.17**
Avocados.....	10,751	91.86	7,935.39	86.39
Bananas.....	11,134	155.63	19,589.08	125.87
Guavas.....	497	1.07	20.64	19.29
Lemons.....	209	*	*	*
Mangoes.....	5,182	26.92	3,479.96	129.27
Oranges.....	433	0.56	-	-
Papayas.....	2,118	6.29	1,303.91	207.30
Pineapples.....	274	*	*	*
Chat.....	**477**	*	**-**	**-**
Coffee.....	**16,683**	**771.18**	**3,899.77**	**5.06**
Hops.....	**1,082**	**6.64**	**-**	**-**
Sugar Cane.....	**6,151**	**62.55**	**31,092.58**	**497.08**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	*	-	-	-	-	-	-

Table 10.15 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Konta Special Wereda

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**25,875**	**12,108.14**	**242,179.08**	**20.00**
Cereals.....	**23,201**	**8,344.72**	**190,750.96**	
Teff.....	12,441	2,409.51	23,319.27	9.68
Barley.....	*	*	*	*
Wheat.....	3,550	495.31	11,322.52	22.86
Maize.....	12,017	3,466.51	117,075.74	33.77
Sorghum.....	9,400	1,600.15	32,853.08	20.53
Finger millet.....	*	*	-	-
Oats/'Aja'.....	*	*	*	*
Rice.....	*	*	*	*
Pulses.....	**17,572**	**3,752.88**	**51,352.24**	
Faba beans..... .	9,685	2,133.17	34,503.92	16.17
Field peas.....	5,482	954.79	9,050.82	9.48
Haricot beans.....	10,560	619.20	7,512.79	12.13
Chick-peas.....	-	-	-	-
Lentils.....	*	*	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	*	*
Fenugreek.....	-	-	-	-
Gibto.....	*	*	*	*
Oilseeds.....	**822**	*	*	
Neug.....	*	*	*	*
Linseed.....	483	3.67	*	*
Groundnuts.....	*	*	*	*
Safflower.....	-	-	-	-
Sesame.....	-	-	-	-
Rape seed.....	-	-	-	-
Vegetables.....	**14,552**	**140.30**	**9,591.90**	
Lettuce.....	-	-	-	-
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	11,010	60.79	6,604.92	108.65
Tomatoes.....	*	*	-	-
Green peppers.....	3,016	17.83	1,767.09	99.11
Red peppers.....	4,501	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**27,443**	**1,823.58**	**457,032.51**	
Beetroot.....	*	*	*	*
Carrot.....	-	-	-	-
Onion.....	1,623	*	*	*
Potatoes.....	*	*	-	-
Garlic.....	1,889	4.28	391.37	91.44
Taro/'Godere'.....	26,534	1,671.13	441,177.67	264.00
Sweet potatoes.....	5,129	62.71	13,356.73	212.99
Fruit Crops.....	**21,550**	**542.60**	**50,630.73**	**93.31**
Avocados.....	12,536	127.27	5,040.97	39.61
Bananas.....	17,446	307.37	27,613.89	89.84
Guavas.....	1,529	6.83	-	-
Lemons.....	1,580	3.95	1,068.35	270.47
Mangoes.....	6,440	42.96	4,843.97	112.76
Oranges.....	4,036	18.58	1,722.53	92.71
Papayas.....	7,182	34.51	10,341.01	299.65
Pineapples.....	*	*	-	-
Chat.....	**2,435**	*	*	*
Coffee.....	**18,470**	**426.95**	**1,879.18**	**4.40**
Hops.....	**3,383**	**18.25**	**-**	**-**
Sugar Cane.....	**4,897**	**19.50**	**8,904.02**	**456.62**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	*	*	*	-	*	*	-

Table 10.16 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Silitie

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**188,022**	**102,016.13**	**2,449,973.97**	**24.02**
Cereals.....	**186,278**	**92,385.54**	**2,299,050.82**	
Teff.....	48,458	11,493.63	148,028.99	12.88
Barley.....	90,098	8,118.36	161,657.24	19.91
Wheat.....	102,490	24,684.21	615,474.33	24.93
Maize.....	156,363	38,973.95	1,230,073.85	31.56
Sorghum.....	73,950	8,578.07	138,637.23	16.16
Finger millet.....	10,852	*	*	*
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	**132,575**	**9,451.30**	**149,399.09**	
Faba beans..... .	105,211	4,982.38	86,007.81	17.26
Field peas.....	52,176	2,779.61	40,178.37	14.45
Haricot beans.....	17,308	781.53	9,443.56	12.08
Chick-peas.....	10,016	580.60	9,556.82	16.46
Lentils.....	*	*	-	-
Grass Peas.....	*	*	*	*
Soya beans.....	*	*	-	-
Fenugreek.....	6,414	94.01	850.68	9.05
Gibto.....	-	-	-	-
Oilseeds.....	**9,961**	**179.29**	**1,524.07**	
Neug.....	-	-	-	-
Linseed.....	6,371	148.61	*	*
Groundnuts.....	*	*	-	-
Safflower.....	*	*	-	-
Sesame.....	-	-	-	-
Rape seed.....	2,987	*	*	*
Vegetables.....	**156,179**	**8,856.58**	**662,414.78**	
Lettuce.....	*	*	-	-
Head Cabbage.....	10,764	49.32	*	*
Ethiopian Cabbage.....	141,409	2,593.98	314,290.43	121.16
Tomatoes.....	*	*	-	-
Green peppers.....	*	*	*	*
Red peppers.....	48,943	6,141.63	341,584.04	55.62
Swiss chard.....	*	*	-	-
Root Crops.....	**29,889**	**179.87**	**21,096.93**	
Beetroot.....	6,904	9.46	854.99	90.38
Carrot.....	7,762	10.80	987.98	91.48
Onion.....	6,515	47.47	*	*
Potatoes.....	*	*	*	*
Garlic.....	6,850	17.13	1,168.12	68.19
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	*	*	-	-
Fruit Crops.....	**39,232**	**325.43**	**26,348.36**	**80.96**
Avocados.....	12,397	46.37	-	-
Bananas.....	17,845	102.34	5,065.95	49.50
Guavas.....	2,460	8.00	*	*
Lemons.....	*	*	*	*
Mangoes.....	4,506	33.27	*	*
Oranges.....	4,251	5.96	*	*
Papayas.....	17,838	111.50	*	*
Pineapples.....	-	-	-	-
Chat.....	**80,406**	**2,893.27**	**45,302.92**	**15.66**
Coffee.....	**46,400**	**447.33**	*	*
Hops.....	*	*	-	-
Sugar Cane.....	**5,159**	**23.71**	**879.86**	**37.11**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	*	*	*	*	*	*	*

Table 10.17 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Alaba Special Wereda

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**51,968**	**39,465.46**	**825,100.27**	**20.91**
Cereals.....	**51,968**	**38,159.36**	**809,862.71**	
Teff.....	28,031	8,885.39	106,387.58	11.97
Barley.....	4,577	374.46	4,546.21	12.14
Wheat.....	14,945	3,875.74	82,622.43	21.32
Maize.....	51,202	19,445.50	530,387.35	27.28
Sorghum.....	36,219	3,522.68	54,493.81	15.47
Finger millet.....	24,520	2,055.59	31,425.32	15.29
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	**21,221**	**1,260.41**	**14,948.52**	
Faba beans..... .	*	*	*	*
Field peas.....	*	*	*	*
Haricot beans.....	18,140	1,103.01	13,322.08	12.08
Chick-peas.....	*	*	-	-
Lentils.....	*	*	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	1,320	29.85	107.54	3.60
Gibto.....	-	-	-	-
Oilseeds.....	**2,718**	*	**289.05**	
Neug.....	-	-	-	-
Linseed.....	2,143	*	*	*
Groundnuts.....	-	-	-	-
Safflower.....	-	-	-	-
Sesame.....	*	*	*	*
Rape seed.....	*	*	-	-
Vegetables.....	**47,349**	**6,314.15**	**223,312.55**	
Lettuce.....	*	*	-	-
Head Cabbage.....	5,349	29.95	4,458.92	148.88
Ethiopian Cabbage.....	41,387	976.34	109,503.95	112.16
Tomatoes.....	*	*	-	-
Green peppers.....	1,229	*	-	-
Red peppers.....	31,957	5,295.10	109,349.68	20.65
Swiss chard.....	*	*	-	-
Root Crops.....	**8,391**	*	*	
Beetroot.....	1,692	*	*	*
Carrot.....	*	*	*	*
Onion.....	1,744	*	-	-
Potatoes.....	3,994	*	-	-
Garlic.....	*	*	*	*
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	485	1.55	-	-
Fruit Crops.....	**10,459**	**61.23**	**3,288.25**	**53.70**
Avocados.....	2,000	6.96	-	-
Bananas.....	7,026	36.88	2,440.32	66.17
Guavas.....	*	*	-	-
Lemons.....	*	*	-	-
Mangoes.....	500	*	*	*
Oranges.....	*	*	-	-
Papayas.....	2,844	*	*	*
Pineapples.....	-	-	-	-
Chat.....	**25,452**	**1,095.51**	**29,201.96**	**26.66**
Coffee.....	**12,454**	**174.19**	**1,266.38**	**7.27**
Hops.....	**-**	**-**	**-**	**-**
Sugar Cane.....	**2,043**	*	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 10.18 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Segen Peole's Zone

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**100,843**	**62,495.72**	**1,027,680.25**	**16.44**
Cereals.....	**97,902**	**48,929.47**	**875,207.69**	
Teff.....	32,844	9,187.41	93,929.02	10.22
Barley.....	24,977	2,091.79	24,348.96	11.64
Wheat.....	15,774	2,166.91	31,728.47	14.64
Maize.....	71,262	19,306.86	452,511.61	23.44
Sorghum.....	51,911	16,160.90	272,689.64	16.87
Finger millet.....	*	*	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	**64,385**	**13,551.43**	**152,418.28**	
Faba beans..... .	11,986	581.72	6,740.00	11.59
Field peas.....	9,424	748.61	7,301.28	9.75
Haricot beans.....	55,238	11,508.19	129,112.04	11.22
Chick-peas.....	3,238	552.16	7,648.40	13.85
Lentils.....	2,751	*	*	*
Grass Peas.....	-	-	-	-
Soya beans.....	*	*	-	-
Fenugreek.....	1,816	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**1,635**	**14.82**	*	
Neug.....	-	-	-	-
Linseed.....	*	*	*	*
Groundnuts.....	*	*	-	-
Safflower.....	*	*	*	*
Sesame.....	-	-	-	-
Rape seed.....	-	-	-	-
Vegetables.....	**40,859**	**415.34**	**47,077.23**	
Lettuce.....	*	*	-	-
Head Cabbage.....	*	*	*	*
Ethiopian Cabbage.....	37,607	377.97	44,875.06	118.73
Tomatoes.....	1,110	*	*	*
Green peppers.....	3,520	15.57	*	*
Red peppers.....	*	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**32,875**	**504.85**	**53,113.96**	
Beetroot.....	*	*	*	*
Carrot.....	*	*	*	*
Onion.....	6,571	144.11	17,461.16	121.17
Potatoes.....	5,844	52.58	-	-
Garlic.....	*	*	*	*
Taro/'Godere'.....	13,549	*	*	*
Sweet potatoes.....	14,355	164.75	8,980.64	54.51
Fruit Crops.....	**43,251**	**858.22**	**51,691.87**	**60.23**
Avocados.....	8,030	85.62	-	-
Bananas.....	30,620	595.73	28,481.44	47.81
Guavas.....	1,531	5.54	*	*
Lemons.....	1,780	*	*	*
Mangoes.....	10,602	*	*	*
Oranges.....	1,497	*	*	*
Papayas.....	13,799	56.23	11,126.94	197.88
Pineapples.....	-	-	-	-
Chat.....	**9,774**	*	*	*
Coffee.....	**39,783**	**1,682.09**	**32,406.61**	**19.27**
Hops.....	**4,403**	**37.11**	-	-
Sugar Cane.....	**17,880**	**380.32**	**203,785.07**	**535.83**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	539,262	**77,739.92**	**62,458.83**	**6,970.86**	**0.14**	**0.12**	**0.01**

Table 11 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Gambela Region

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**38,118**	**8,847.59**	**202,408.82**	**22.88**
Cereals.....	**35,556**	**8,768.83**	**202,226.69**	
Teff.....	*	*	-	-
Barley.....	181	26.92	*	*
Wheat.....	*	*	-	-
Maize.....	25,552	5,070.81	119,724.88	23.61
Sorghum.....	12,390	3,662.18	82,322.40	22.48
Finger millet.....	-	-	-	-
Oats/'Aja'.....	*	*	-	-
Rice.....	*	*	*	*
Pulses.....	**3,380**	*	*	
Faba beans..... .	*	*	*	*
Field peas.....	*	*	-	-
Haricot beans.....	3,269	*	*	*
Chick-peas.....	-	-	-	-
Lentils.....	*	*	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**1,426**	**29.52**	**161.16**	
Neug.....	*	*	*	*
Linseed.....	*	*	-	-
Groundnuts.....	722	6.64	52.67	7.93
Safflower.....	270	*	*	*
Sesame.....	*	*	*	*
Rape seed.....	*	*	*	*
Vegetables.....	**8,793**	**177.40**	**11,237.59**	
Lettuce.....	-	-	-	-
Head Cabbage.....	187	*	-	-
Ethiopian Cabbage.....	4,729	39.23	3,093.46	78.85
Tomatoes.....	1,089	*	*	*
Green peppers.....	1,737	37.96	3,165.51	83.39
Red peppers.....	2,700	*	*	*
Swiss chard.....	*	*	-	-
Root Crops.....	**12,983**	**305.49**	**55,402.94**	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	*	*	-	-
Potatoes.....	163	*	*	*
Garlic.....	*	*	-	-
Taro/'Godere'.....	7,417	106.40	30,614.91	287.73
Sweet potatoes.....	6,775	181.30	22,900.81	126.31
Fruit Crops.....	**23,286**	**689.32**	**-**	**-**
Avocados.....	7,518	104.07	-	-
Bananas.....	10,377	219.17	-	-
Guavas.....	657	*	-	-
Lemons.....	724	4.81	-	-
Mangoes.....	11,880	180.41	-	-
Oranges.....	2,216	13.97	-	-
Papayas.....	10,707	*	-	-
Pineapples.....	816	11.07	-	-
Chat.....	**3,047**	*	**-**	**-**
Coffee.....	**12,603**	**4,958.73**	**-**	**-**
Hops.....	**2,301**	**31.65**	**-**	**-**
Sugar Cane.....	**7,928**	**130.09**	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	147,672	**1,126.89**	**2,913.18**	**23.99**	**0.01**	**0.02**	*

Table 11.1 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Agnuwak

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**8,834**	**2,437.47**	**61,388.48**	**25.19**
Cereals.....	**6,691**	**2,372.33**	**61,230.95**	
Teff.....	-	-	-	-
Barley.....	*	*	*	*
Wheat.....	-	-	-	-
Maize.....	4,541	1,447.43	38,256.81	26.43
Sorghum.....	2,709	*	*	*
Finger millet.....	-	-	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	*	*	*	*
Pulses.....	**2,268**	*	-	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	2,268	*	-	-
Chick-peas.....	-	-	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**1,134**	**28.03**	**157.52**	
Neug.....	*	*	*	*
Linseed.....	*	*	-	-
Groundnuts.....	722	6.64	52.67	7.93
Safflower.....	*	*	*	*
Sesame.....	*	*	*	*
Rape seed.....	*	*	*	*
Vegetables.....	**2,415**	*	*	
Lettuce.....	-	-	-	-
Head Cabbage.....	*	*	-	-
Ethiopian Cabbage.....	*	*	-	-
Tomatoes.....	583	*	*	*
Green peppers.....	327	*	*	*
Red peppers.....	1,548	*	*	*
Swiss chard.....	-	-	-	-
Root Crops.....	**6,694**	**172.56**	**26,418.09**	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	*	*	-	-
Potatoes.....	-	-	-	-
Garlic.....	-	-	-	-
Taro/'Godere'.....	1,961	28.60	8,751.78	306.01
Sweet potatoes.....	5,415	138.02	17,666.30	128.00
Fruit Crops.....	**8,963**	**244.87**	-	-
Avocados.....	*	*	-	-
Bananas.....	3,103	*	-	-
Guavas.....	*	*	-	-
Lemons.....	364	2.20	-	-
Mangoes.....	3,740	51.18	-	-
Oranges.....	*	*	-	-
Papayas.....	6,004	*	-	-
Pineapples.....	-	-	-	-
Chat.....	*	*	-	-
Coffee.....	*	*	-	-
Hops.....	*	*	-	-
Sugar Cane.....	**1,279**	*	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 11.2 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Nuware

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**12,655**	**2,591.98**	**46,984.21**	**18.13**
Cereals.....	**12,655**	**2,591.98**	**46,984.21**	
Teff.....	-	-	-	-
Barley.....	*	*	-	-
Wheat.....	-	-	-	-
Maize.....	12,655	2,590.78	46,984.21	18.14
Sorghum.....	-	-	-	-
Finger millet.....	-	-	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	-	-	-	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	-	-	-	-
Chick-peas.....	-	-	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
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.....	-	-	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 11.3 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Mezhenger

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**11,532**	**3,011.66**	**63,967.64**	**21.24**
Cereals.....	**11,113**	**2,998.03**	**63,943.03**	
Teff.....	*	*	-	-
Barley.....	*	*	-	-
Wheat.....	*	*	-	-
Maize.....	3,259	232.64	4,415.37	18.98
Sorghum.....	9,681	2,757.79	59,527.67	21.59
Finger millet.....	-	-	-	-
Oats/'Aja'.....	*	*	-	-
Rice.....	*	*	-	-
Pulses.....	**1,113**	**12.13**	*	
Faba beans..... .	*	*	*	*
Field peas.....	*	*	-	-
Haricot beans.....	1,001	*	*	*
Chick-peas.....	-	-	-	-
Lentils.....	*	*	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**292**	**1.49**	*	
Neug.....	-	-	-	-
Linseed.....	*	*	-	-
Groundnuts.....	-	-	-	-
Safflower.....	*	*	-	-
Sesame.....	*	*	*	*
Rape seed.....	*	*	-	-
Vegetables.....	**6,233**	**98.05**	**6,542.40**	
Lettuce.....	-	-	-	-
Head Cabbage.....	142	*	-	-
Ethiopian Cabbage.....	4,593	32.69	3,093.46	94.63
Tomatoes.....	360	*	-	-
Green peppers.....	1,385	35.72	3,022.55	84.62
Red peppers.....	1,153	23.42	*	*
Swiss chard.....	*	*	-	-
Root Crops.....	**5,884**	**124.89**	**27,417.75**	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	144	*	-	-
Potatoes.....	163	*	*	*
Garlic.....	*	*	-	-
Taro/'Godere'.....	5,230	74.78	20,938.82	280.01
Sweet potatoes.....	*	38.26	4,591.71	120.01
Fruit Crops.....	**12,075**	**351.34**	**-**	**-**
Avocados.....	7,296	102.96	-	-
Bananas.....	6,078	123.55	-	-
Guavas.....	509	1.41	-	-
Lemons.....	360	2.61	-	-
Mangoes.....	6,260	74.37	-	-
Oranges.....	2,082	13.57	-	-
Papayas.....	4,316	21.79	-	-
Pineapples.....	816	11.07	-	-
Chat.....	**2,866**	*	**-**	**-**
Coffee.....	**11,696**	**4,845.45**	**-**	**-**
Hops.....	**2,029**	**29.47**	**-**	**-**
Sugar Cane.....	**6,613**	**100.03**	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	147,672	**1,126.89**	**2,913.18**	**23.99**	**0.01**	**0.02**	*

Table 11.4 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Itang Special

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**5,097**	**806.49**	**30,068.49**	**37.28**
Cereals.....	**5,097**	**806.49**	**30,068.49**	
Teff.....	-	-	-	-
Barley.....	*	*	-	-
Wheat.....	-	-	-	-
Maize.....	5,097	799.96	30,068.49	37.59
Sorghum.....	-	-	-	-
Finger millet.....	-	-	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	*	*	-	-
Pulses.....	**-**	**-**	**-**	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	-	-	-	-
Chick-peas.....	-	-	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
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.....	**405**	**8.04**	**1,567.11**	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	-	-	-	-
Potatoes.....	-	-	-	-
Garlic.....	-	-	-	-
Taro/'Godere'.....	226	*	*	*
Sweet potatoes.....	231	5.02	642.80	128.05
Fruit Crops.....	**2,218**	**93.03**	**-**	**-**
Avocados.....	-	-	-	-
Bananas.....	1,196	36.02	-	-
Guavas.....	*	*	-	-
Lemons.....	-	-	-	-
Mangoes.....	1,851	54.78	-	-
Oranges.....	*	*	-	-
Papayas.....	386	1.92	-	-
Pineapples.....	-	-	-	-
Chat.....	**-**	**-**	**-**	**-**
Coffee.....	**-**	**-**	**-**	**-**
Hops.....	**-**	**-**	**-**	**-**
Sugar Cane.....	*	*	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 12 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Harari

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**25,289**	**11,205.44**	**140,268.37**	**12.52**
Cereals.....	**25,062**	**8,202.03**	**114,078.56**	
Teff.....	-	-	-	-
Barley.....	371	*	*	*
Wheat.....	1,177	58.94	*	*
Maize.....	16,983	1,242.35	27,414.43	22.07
Sorghum.....	24,463	6,871.85	85,903.88	12.50
Finger millet.....	*	*	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	*	*	*	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	*	*	*	*
Chick-peas.....	-	-	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	-	-	-	-
Gibto.....	-	-	-	-
Oilseeds.....	**12,650**	**2,997.13**	**26,117.90**	
Neug.....	-	-	-	-
Linseed.....	*	*	*	*
Groundnuts.....	12,447	2,943.02	25,633.57	8.71
Safflower.....	-	-	-	-
Sesame.....	*	*	*	*
Rape seed.....	*	*	*	*
Vegetables.....	**1,219**	*	-	
Lettuce.....	-	-	-	-
Head Cabbage.....	*	*	-	-
Ethiopian Cabbage.....	-	-	-	-
Tomatoes.....	*	*	-	-
Green peppers.....	432	*	-	-
Red peppers.....	-	-	-	-
Swiss chard.....	-	-	-	-
Root Crops.....	**2,866**	**128.82**	-	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	*	*	-	-
Potatoes.....	*	*	-	-
Garlic.....	*	*	-	-
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	2,392	117.04	-	-
Fruit Crops.....	**9,630**	**506.53**	**4,861.99**	**9.60**
Avocados.....	*	*	-	-
Bananas.....	2,583	43.50	698.96	16.07
Guavas.....	855	5.76	-	-
Lemons.....	2,913	47.64	-	-
Mangoes.....	7,265	367.24	331.69	0.90
Oranges.....	*	-	-	-
Papayas.....	1,603	42.27	*	*
Pineapples.....	*	-	-	-
Chat.....	**22,678**	**4,083.89**	**83,817.18**	**20.52**
Coffee.....	**1,966**	**45.11**	**124.51**	**2.76**
Hops.....	-	-	-	-
Sugar Cane.....	**3,693**	*	-	-

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

Table 13 - Area, Production and Yield of Crops for Private Peasant Holdings for Meher Season 2012/13 (2005 E.C.)

Dire Dawa

Crop	Number of holders	Area in hectare	Production in quintal	yield (qt / ha)
Grain Crops.	**22,685**	**10,731.66**	**170,079.81**	**15.85**
Cereals.....	**22,630**	**9,773.72**	**158,798.02**	
Teff.....	-	-	-	-
Barley.....	*	*	*	*
Wheat.....	*	*	*	*
Maize.....	6,125	270.55	4,032.60	14.91
Sorghum.....	22,265	9,429.03	154,126.41	16.35
Finger millet.....	-	-	-	-
Oats/'Aja'.....	-	-	-	-
Rice.....	-	-	-	-
Pulses.....	**10,213**	**690.55**	**8,928.67**	
Faba beans..... .	-	-	-	-
Field peas.....	-	-	-	-
Haricot beans.....	10,054	687.46	8,925.27	12.98
Chick-peas.....	-	-	-	-
Lentils.....	-	-	-	-
Grass Peas.....	-	-	-	-
Soya beans.....	-	-	-	-
Fenugreek.....	*	*	*	*
Gibto.....	-	-	-	-
Oilseeds.....	**4,610**	**267.39**	**2,353.12**	
Neug.....	-	-	-	-
Linseed.....	-	-	-	-
Groundnuts.....	1,831	*	*	*
Safflower.....	-	-	-	-
Sesame.....	2,835	109.56	863.05	7.88
Rape seed.....	-	-	-	-
Vegetables.....	**2,662**	**44.90**	**6,566.17**	
Lettuce.....	-	-	-	-
Head Cabbage.....	-	-	-	-
Ethiopian Cabbage.....	*	*	-	-
Tomatoes.....	2,450	42.36	6,566.17	155.01
Green peppers.....	*	*	-	-
Red peppers.....	-	-	-	-
Swiss chard.....	-	-	-	-
Root Crops.....	**2,951**	*	**-**	
Beetroot.....	-	-	-	-
Carrot.....	-	-	-	-
Onion.....	1,378	*	-	-
Potatoes.....	545	*	-	-
Garlic.....	-	-	-	-
Taro/'Godere'.....	-	-	-	-
Sweet potatoes.....	1,299	25.24	-	-
Fruit Crops.....	**5,342**	*	**-**	**-**
Avocados.....	-	-	-	-
Bananas.....	543	*	-	-
Guavas.....	1,732	12.21	-	-
Lemons.....	368	*	-	-
Mangoes.....	1,505	*	-	-
Oranges.....	*	*	-	-
Papayas.....	2,284	*	-	-
Pineapples.....	-	-	-	-
Chat.....	**11,999**	**905.95**	**7,355.47**	**8.12**
Coffee.....	**4,084**	**106.65**	**211.98**	**1.99**
Hops.....	**-**	**-**	**-**	**-**
Sugar Cane.....	**-**	**-**	**-**	**-**

Enset	Number of Trees to be Harvested	Expected Production in Quintals			Expected Yield (Quintals/Tree)		
		Amicho	Kocho	Bula	Amicho	Kocho	Bula
	-	-	-	-	-	-	-

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 household 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 under Specific Crop:

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

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

Where, $\bar{Y}_{hi} = \frac{Y_{hi}}{4C_{hi}}$ is average yield per square meter of a specific crop in the i[th] EA in the h[th] stratum.

$\hat{P}_h$ 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.

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

$\hat{A}_{hij}, \hat{\mathrm{P}}_{hij}$ 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.

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

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:

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

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 **2012/13 (2005 E.C.)**

Ethiopia

Crop	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	12,282,929.98	177,159.04	1.44	231,288,471.77	4,210,712.97	1.82
Cereals	9,601,035.26	142,055.59	1.48	196,511,515.46	3,794,198.94	1.93
Teff	2,730,272.95	77,443.24	2.84	37,652,411.66	1,399,597.24	3.72
Barley	1,018,752.94	46,005.84	4.52	17,816,522.08	997,332.05	5.60
Wheat	1,627,647.16	68,471.82	4.21	34,347,061.22	1,732,504.35	5.04
Maize	2,013,044.93	57,277.15	2.85	61,583,175.95	2,170,244.18	3.52
Sorghum	1,711,485.04	69,393.04	4.05	36,042,619.65	1,692,321.19	4.70
Finger millet	431,506.89	24,898.80	5.77	7,422,971.46	493,812.83	6.65
Oats / 'Aja'	26,514.10	3,330.22	12.56	436,337.83	58,113.18	13.32
Rice	41,811.25	16,577.65	39.65	1,210,415.62	524,315.55	43.32
Pulses	1,863,445.42	51,278.07	2.75	27,510,311.88	913,644.21	3.32
Field peas	255,968.83	12,359.36	4.83	3,273,775.14	190,855.43	5.83
Haricot beans	366,876.94	22,713.40	6.19	4,630,084.90	324,074.82	7.00
Chick-peas	239,512.43	18,354.42	7.66	4,097,331.63	375,536.89	9.17
Lentils	123,718.15	12,021.24	9.72	1,514,999.32	188,054.64	12.41
Vetch	205,374.20	17,891.13	8.71	3,255,805.54	329,202.73	10.11
Soya beans	31,854.75	8,018.87	25.17	636,531.01	193,304.03	30.37
Fenugreek	32,909.63	5,193.91	15.78	293,334.93	60,686.00	20.69
Gibto	33,170.03	6,433.05	19.39	368,807.70	81,330.80	22.05
Oilseeds	818,449.30	53,070.04	6.48	7,266,644.43	493,128.50	6.79
Neug	303,627.70	23,061.29	7.60	2,124,155.39	195,101.78	9.18
Linseed	127,883.03	9,975.90	7.80	1,220,643.34	144,215.21	11.81
Groundnuts	90,155.57	12,876.76	14.28	1,244,187.53	205,308.56	16.50
Safflower	11,413.74	1,945.03	17.04	132,793.77	24,378.87	18.36
Sesame	239,532.34	45,784.15	19.11	1,813,760.51	371,530.70	20.48
Rape seed	45,836.92	3,532.37	7.71	731,103.90	77,034.33	10.54

Estimate of Holders, Area, Production, Standard Errors and Coefficient of Variations
For Crops **2012/13 (2005 E.C.)**

Tigray

Crop	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	877,506.12	44,694.50	5.09	15,463,990.11	1,004,173.49	6.49
Cereals	730,755.92	34,194.06	4.68	13,887,383.25	891,548.84	6.42
Teff	161,798.11	12,555.32	7.76	2,122,234.54	228,433.51	10.76
Barley	98,162.52	9,241.09	9.41	1,588,109.44	219,190.04	13.80
Wheat	111,846.34	12,567.98	11.24	2,052,724.49	245,417.45	11.96
Maize	69,026.20	5,200.19	7.53	1,611,595.43	141,513.08	8.78
Sorghum	208,390.45	19,778.57	9.49	5,051,383.77	601,457.49	11.91
Finger millet	78,663.67	8,425.98	10.71	1,391,749.88	182,297.12	13.10
Oats / 'Aja'	452.03	398.31	88.11	10,333.25	9,816.35	95.00
Rice	2,416.60	1,888.94	78.17	59,252.44	49,318.97	83.24
Pulses	61,633.99	5,544.11	9.00	836,908.59	81,753.03	9.77
Field peas	6,306.76	1,314.63	20.84	85,514.63	15,782.93	18.46
Haricot beans	2,386.10	1,319.92	55.32	21,787.31	13,146.33	60.34
Chick-peas	11,604.22	2,201.66	18.97	145,310.21	26,810.94	18.45
Lentils	8,539.51	1,574.38	18.44	87,512.38	17,861.97	20.41
Vetch	12,734.96	2,430.37	19.08	175,614.72	45,970.82	26.18
Soya beans	117.07	111.01	94.83	2,817.99	2,686.49	95.33
Fenugreek	1,365.27	672.79	49.28	5,598.99	2,128.99	38.02
Gibto	-	-	-	-	-	-
Oilseeds	85,116.21	16,292.05	19.14	739,698.27	144,852.14	19.58
Neug	6,341.53	2,413.15	38.05	59,371.86	24,772.79	41.72
Linseed	8,188.38	1,459.25	17.82	89,475.17	18,872.61	21.09
Groundnuts	345.30	258.70	74.92	2,992.81	2,545.29	85.05
Safflower	133.12	51.60	38.76	314.01	244.62	77.90
Sesame	69,505.94	16,293.97	23.44	579,331.95	143,358.94	24.75
Rape seed	601.95	568.06	94.37	8,212.46	8,120.72	98.88

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops **2012/13 (2005 E.C.)**

Afar

Crop	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	3,754.37	1,067.18	28.42	195,769.21	54,267.43	27.72
Cereals	3,754.37	1,067.18	28.42	195,769.21	54,267.43	27.72
Teff	-	-	-	-	-	-
Barley	18.83	18.83	99.99	-	-	-
Wheat	235.20	225.36	95.81	-	-	-
Maize	3,346.35	1,043.18	31.17	188,482.63	54,337.18	28.83
Sorghum	153.98	87.30	56.70	7,286.58	4,369.79	59.97
Finger millet	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-
Chick-peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops **2012/13 (2005 E.C.)**

Amhara

Crop	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	4,366,386.09	111,965.73	2.56	73,122,044.45	2,405,839.24	3.29
Cereals	3,254,156.12	86,739.27	2.67	59,051,697.91	2,150,256.65	3.64
Teff	1,090,139.50	52,141.60	4.78	15,281,977.33	955,027.09	6.25
Barley	388,113.19	30,468.44	7.85	5,905,028.22	550,766.81	9.33
Wheat	498,192.03	37,107.96	7.45	8,885,685.80	746,682.44	8.40
Maize	434,641.83	21,594.59	4.97	12,629,728.51	900,216.82	7.13
Sorghum	578,276.40	51,648.43	8.93	11,227,669.52	1,127,922.94	10.05
Finger millet	226,547.40	21,393.27	9.44	4,076,438.95	419,360.93	10.29
Oats / 'Aja'	3,476.78	597.09	17.17	42,941.95	7,964.28	18.55
Rice	34,768.99	16,376.65	47.10	1,002,227.63	518,825.17	51.77
Pulses	821,900.48	38,042.74	4.63	11,653,125.21	624,912.64	5.36
Field peas	96,707.67	7,415.27	7.67	1,156,329.90	105,311.72	9.11
Haricot beans	96,416.68	13,783.83	14.30	1,122,650.02	155,557.63	13.86
Chick-peas	130,381.56	13,265.56	10.17	2,250,806.35	269,197.25	11.96
Lentils	77,368.16	10,718.27	13.85	950,400.67	162,611.40	17.11
Vetch	124,614.92	13,935.36	11.18	1,902,017.86	224,662.85	11.81
Soya beans	3,085.19	1,775.85	57.56	47,901.83	31,053.03	64.83
Fenugreek	15,435.63	2,950.05	19.11	136,992.47	27,566.96	20.12
Gibto	32,824.40	6,431.86	19.59	368,645.35	81,330.74	22.06
Oilseeds	290,329.49	42,629.16	14.68	2,417,221.33	355,595.08	14.71
Neug	97,522.24	11,808.20	12.11	756,396.86	103,022.16	13.62
Linseed	43,778.54	4,696.25	10.73	273,636.77	30,105.74	11.00
Groundnuts	3,817.60	1,715.14	44.93	44,452.91	18,547.93	41.72
Safflower	8,660.32	1,793.17	20.71	93,421.76	19,640.15	21.02
Sesame	107,596.44	41,339.78	38.42	765,395.78	334,053.39	43.64
Rape seed	28,954.35	3,068.17	10.60	483,917.25	70,615.47	14.59

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops **2012/13 (2005 E.C.)**

Oromia

Crop	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	5,598,771.59	121,918.16	2.18	114,681,202.22	3,130,475.91	2.73
Cereals	4,486,163.34	100,069.60	2.23	99,568,008.32	2,836,563.80	2.85
Teff	1,256,564.80	54,042.18	4.30	17,535,596.51	977,112.67	5.57
Barley	448,545.32	32,317.94	7.21	8,977,417.59	783,453.10	8.73
Wheat	872,971.81	54,675.97	6.26	20,262,900.10	1,504,849.19	7.43
Maize	1,115,957.40	48,548.87	4.35	35,908,457.46	1,837,412.61	5.12
Sorghum	675,657.31	39,224.82	5.81	14,898,156.74	1,061,203.36	7.12
Finger millet	92,306.89	8,386.80	9.09	1,532,059.62	174,986.07	11.42
Oats / 'Aja'	21,889.32	3,247.31	14.84	378,062.07	56,703.25	15.00
Rice	2,270.49	1,082.36	47.67	75,358.24	36,979.69	49.07
Pulses	734,045.32	31,615.03	4.31	11,683,118.95	617,323.97	5.28
Field peas	99,940.64	8,313.30	8.32	1,370,862.08	140,198.57	10.23
Haricot beans	171,666.55	16,042.54	9.35	2,378,983.47	258,226.12	10.85
Chick-peas	90,757.25	12,347.21	13.60	1,629,204.96	259,206.73	15.91
Lentils	37,049.94	5,208.24	14.06	471,468.54	92,742.58	19.67
Vetch	67,422.87	10,948.39	16.24	1,169,791.48	236,136.32	20.19
Soya beans	14,117.84	5,215.25	36.94	251,840.46	100,207.36	39.79
Fenugreek	15,738.77	4,220.55	26.82	148,374.47	54,017.44	36.41
Gibto	188.60	97.05	51.46	-	-	-
Oilseeds	378,562.94	26,333.23	6.96	3,430,074.95	290,517.85	8.47
Neug	188,558.40	19,496.91	10.34	1,251,069.84	163,263.98	13.05
Linseed	73,862.71	8,675.88	11.75	846,667.43	139,756.56	16.51
Groundnuts	56,950.52	11,702.81	20.55	756,518.38	180,667.67	23.88
Safflower	2,070.23	692.91	33.47	29,096.02	13,069.62	44.92
Sesame	42,219.83	10,622.72	25.16	317,423.85	71,894.18	22.65
Rape seed	14,901.25	1,614.54	10.83	229,299.44	29,575.94	12.90

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops **2012/13 (2005 E.C.)**

Somale

Crop	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	69,212.30	6,755.62	9.76	2,059,491.14	253,739.94	12.32
Cereals	65,729.52	6,494.16	9.88	2,016,878.04	255,342.44	12.66
Teff	-	-	-	-	-	-
Barley	1,089.73	696.32	63.90	23,008.51	14,874.66	64.65
Wheat	4,150.13	1,889.03	45.52	92,781.82	43,589.62	46.98
Maize	28,808.44	3,582.23	12.43	920,293.39	139,287.18	15.14
Sorghum	31,593.75	3,701.18	11.71	980,619.38	143,584.20	14.64
Finger millet	-	-	-	-	-	-
Oats / 'Aja'	87.47	60.28	68.92	174.93	120.56	68.92
Rice	-	-	-	-	-	-
Pulses	1,058.39	343.99	32.50	13,954.33	6,394.05	45.82
Field peas	1.22	1.20	98.68	21.98	21.69	98.68
Haricot beans	941.75	335.85	35.66	13,803.43	6,382.44	46.24
Chick-peas	19.85	19.91	100.30	-	-	-
Lentils	44.01	43.81	99.55	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	51.57	50.12	97.18	128.92	125.29	97.18
Gibto	-	-	-	-	-	-
Oilseeds	2,424.39	1,655.94	68.30	28,658.77	21,287.73	74.28
Neug	-	-	-	-	-	-
Linseed	145.51	100.27	68.90	-	-	-
Groundnuts	2,242.99	1,646.24	73.39	28,463.27	21,227.39	74.58
Safflower	-	-	-	-	-	-
Sesame	35.88	22.21	61.88	195.50	108.45	55.47
Rape seed	-	-	-	-	-	-

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops **2012/13 (2005 E.C.)**

Benishangul - Gumuz

Crop	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	243,931.23	17,488.62	7.17	4,420,519.00	433,401.33	9.80
Cereals	167,390.12	12,316.60	7.36	3,398,332.72	304,433.94	8.96
Teff	19,389.08	3,469.59	17.89	197,194.05	47,378.37	24.03
Barley	723.21	278.46	38.50	7,877.64	3,306.49	41.97
Wheat	1,770.90	772.80	43.64	29,460.56	13,048.94	44.29
Maize	49,476.37	5,116.90	10.34	1,454,544.88	150,138.83	10.32
Sorghum	65,933.36	8,628.94	13.09	1,309,957.16	219,261.72	16.74
Finger millet	29,114.90	4,513.23	15.50	365,682.81	63,850.46	17.46
Oats / 'Aja'	103.74	69.56	67.05	811.58	627.51	77.32
Rice	878.55	737.93	83.99	32,804.04	29,476.07	89.85
Pulses	24,703.72	5,676.33	22.98	447,663.34	159,105.76	35.54
Field peas	887.35	431.63	48.64	9,996.75	5,419.27	54.21
Haricot beans	7,749.14	1,579.38	20.38	88,505.37	19,286.24	21.79
Chick-peas	853.24	331.04	38.80	5,647.08	2,134.91	37.81
Lentils	31.96	28.36	88.73	-	-	-
Vetch	3.28	3.18	97.10	-	-	-
Soya beans	14,390.24	5,825.17	40.48	333,665.13	162,337.27	48.65
Fenugreek	8.24	7.02	85.25	2.00	1.22	60.93
Gibto	54.40	48.64	89.42	75.93	74.93	98.67
Oilseeds	51,837.39	5,780.50	11.15	574,522.93	103,374.65	17.99
Neug	9,066.10	2,017.36	22.25	45,499.88	10,557.49	23.20
Linseed	676.57	178.74	26.42	3,792.29	1,485.16	39.16
Groundnuts	23,144.53	4,744.66	20.50	380,126.69	93,032.64	24.47
Safflower	354.60	284.46	80.22	6,685.96	5,971.90	89.32
Sesame	18,485.98	2,804.76	15.17	137,034.79	25,607.31	18.69
Rape seed	109.60	37.72	34.42	1,383.33	491.13	35.50

Estimate of Holders, Area, Production, Standard Errors and Coefficient of Variations
For Crops **2012/13 (2005 E.C.)**

S.N.N.P.R.

Crop	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	1,092,583.61	40,386.90	3.70	20,832,698.65	936,361.52	4.49
Cereals	866,341.31	35,712.40	4.12	17,918,342.74	876,792.42	4.89
Teff	202,375.61	13,728.73	6.78	2,515,409.23	193,958.62	7.71
Barley	82,040.19	7,602.71	9.27	1,314,679.86	171,031.80	13.01
Wheat	138,351.34	12,639.37	9.14	3,022,336.80	342,293.96	11.33
Maize	305,204.64	19,741.41	6.47	8,718,901.74	676,823.42	7.76
Sorghum	131,516.72	11,301.23	8.59	2,245,193.80	183,755.00	8.18
Finger millet	4,873.12	757.47	15.54	57,040.20	7,633.67	13.38
Oats / 'Aja'	504.70	147.22	29.17	4,014.05	1,297.86	32.33
Rice	1,474.99	1,157.41	78.47	40,767.06	32,535.20	79.81
Pulses	219,357.44	10,935.32	4.99	2,866,519.91	176,347.02	6.15
Field peas	52,124.96	5,171.26	9.92	651,049.80	73,492.37	11.29
Haricot beans	86,978.86	8,010.51	9.21	995,351.84	116,431.87	11.70
Chick-peas	5,896.30	1,870.54	31.72	66,363.02	25,480.95	38.40
Lentils	684.56	147.26	21.51	5,617.73	1,358.61	24.18
Vetch	598.17	352.59	58.94	8,381.49	5,230.81	62.41
Soya beans	144.41	69.14	47.88	305.59	189.46	62.00
Fenugreek	307.08	74.92	24.40	2,234.69	648.70	29.03
Gibto	102.64	59.33	57.80	86.41	59.88	69.30
Oilseeds	6,884.85	1,877.80	27.27	47,836.00	12,188.61	25.48
Neug	2,131.63	1,538.47	72.17	11,781.85	8,417.72	71.45
Linseed	1,223.84	146.17	11.94	7,065.31	1,180.75	16.71
Groundnuts	547.15	172.95	31.61	4,457.15	1,426.74	32.01
Safflower	189.95	62.91	33.12	3,257.91	1,433.50	44.00
Sesame	1,526.08	1,002.63	65.70	12,999.60	8,172.71	62.87
Rape seed	1,266.22	364.84	28.81	8,274.17	2,611.59	31.56

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops **2012/13 (2005 E.C.)**

Gambela

Crop	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	8,847.59	1,195.70	13.51	202,408.82	32,488.34	16.05
Cereals	8,768.83	1,185.91	13.52	202,226.69	32,456.00	16.05
Teff	5.86	3.69	63.00	-	-	-
Barley	26.92	13.09	48.62	173.20	104.30	60.22
Wheat	1.37	1.28	93.73	-	-	-
Maize	5,070.81	665.28	13.12	119,724.88	21,274.52	17.77
Sorghum	3,662.18	1,003.28	27.40	82,322.40	25,516.31	31.00
Finger millet	-	-	-	-	-	-
Oats / 'Aja'	0.05	0.05	95.97	-	-	-
Rice	1.64	1.08	65.74	6.21	6.63	106.82
Pulses	49.24	29.33	59.57	20.97	14.01	66.81
Field peas	0.23	0.22	93.73	-	-	-
Haricot beans	44.10	28.96	65.67	6.29	3.28	52.18
Chick-peas	-	-	-	-	-	-
Lentils	0.01	0.01	97.04	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	29.52	11.39	38.58	161.16	65.39	40.58
Neug	7.80	8.14	104.30	35.10	36.61	104.30
Linseed	5.99	5.93	98.94	-	-	-
Groundnuts	6.64	3.02	45.42	52.67	24.50	46.52
Safflower	5.52	4.40	79.69	18.11	16.55	91.41
Sesame	2.79	2.24	80.48	52.42	49.54	94.49
Rape seed	0.78	0.47	60.11	2.86	2.17	75.86

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops **2012/13 (2005 E.C.)**

Harari

Crop	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	11,205.44	1,153.03	10.29	140,268.37	13,112.29	9.35
Cereals	8,202.03	587.00	7.16	114,078.56	12,039.91	10.55
Teff	-	-	-	-	-	-
Barley	27.97	15.91	56.87	217.30	137.11	63.10
Wheat	58.94	26.48	44.92	542.96	276.83	50.98
Maize	1,242.35	192.95	15.53	27,414.43	4,436.57	16.18
Sorghum	6,871.85	571.65	8.32	85,903.88	9,719.07	11.31
Finger millet	0.91	0.90	98.60	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	6.28	5.17	82.26	71.90	52.71	73.30
Field peas	-	-	-	-	-	-
Haricot beans	6.28	5.17	82.26	71.90	52.71	73.30
Chick-peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	2,997.13	789.15	26.33	26,117.90	7,495.43	28.70
Neug	-	-	-	-	-	-
Linseed	1.48	1.43	96.68	6.37	6.16	96.68
Groundnuts	2,943.02	765.97	26.03	25,633.57	7,195.83	28.07
Safflower	-	-	-	-	-	-
Sesame	49.84	35.76	71.76	463.57	386.04	83.28
Rape seed	2.78	2.49	89.43	14.39	10.10	70.19

Estimate of Holders Area, Production, Standard Errors and Coefficient of Variations
For Crops **2012/13 (2005 E.C.)**

Dire Dawa

Crop	Area	Standard Error	CV %	Production	Standard Error	CV %
Grain	10,731.66	935.90	8.72	170,079.81	25,130.84	14.78
Cereals	9,773.72	890.45	9.11	158,798.02	24,501.62	15.43
Teff	-	-	-	-	-	-
Barley	5.05	3.18	62.98	10.32	6.12	59.34
Wheat	69.09	59.43	86.01	628.70	540.77	86.01
Maize	270.55	73.57	27.19	4,032.60	1,035.94	25.69
Sorghum	9,429.03	916.59	9.72	154,126.41	24,789.18	16.08
Finger millet	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	690.55	150.13	21.74	8,928.67	1,919.53	21.50
Field peas	-	-	-	-	-	-
Haricot beans	687.46	150.50	21.89	8,925.27	1,919.99	21.51
Chick-peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	3.09	2.56	82.93	3.40	2.82	82.92
Gibto	-	-	-	-	-	-
Oilseeds	267.39	94.85	35.47	2,353.12	927.29	39.41
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	157.83	90.08	57.08	1,490.07	894.91	60.06
Safflower	-	-	-	-	-	-
Sesame	109.56	44.70	40.80	863.05	378.57	43.86
Rape seed	-	-	-	-	-	-

APPENDIX III

NUMBER of EAs and HOUSEHOLDS PLANNED AND ACTUALLY COVERED

Appendix III

Number of Planned and Actually Covered Sampling Units (EAs & Households) of the 2012/13 (2005 E.C.) Annual Agricultural Sample Survey (Meher Season).

	Stratum	Enumeration Areas		Households	
Region	**Zone/Sp.wereda**	**Planned**	**Covered**	**Planned**	**Covered**
Tigray	North Western Tigray	31	31	620	620
	Central Tigray	39	39	780	780
	Eastern Tigray	29	29	580	579
	Southern Tigray	38	38	760	760
	Western Tigray	25	25	500	500
	Region Total	**162**	**159**	**3240**	**3179**
Afar	Zone One	30	28	600	836
	Zone Three	20	21	400	596
	Region Total	**50**	**46**	**1000**	**899**
Amhara	North Gonder	49	49	980	977
	South Gonder	45	45	900	900
	North Wello	46	46	920	915
	South Wello	49	49	980	979
	North Shewa	47	46	940	919
	East Gojam	47	47	940	939
	West Gojam	46	45	920	900
	Wag Hemira	29	29	580	580
	Awi	32	32	640	640
	Oromia	28	28	560	559
	Argoba special wereda	20	20	400	400
	Region Total	**438**	**432**	**8760**	**8634**
Oromia	West Wellega	43	43	860	860
	East Wellega	40	40	800	798
	Illubabor	48	48	960	960
	Jimma	47	47	940	940
	West Shewa	44	44	880	875
	North Shewa	39	39	780	778

Appendix III (Continued…)

Region	Stratum	Enumeration Areas		Households	
	Zone/Sp.wereda	**Planned**	**Covered**	**Planned**	**Covered**
Oromia	East Shewa	40	39	800	779
	Arsi	53	53	1060	1,060
	West Harerghe	41	41	820	817
	East Harerghe	48	48	960	959
	Bale	44	43	880	858
	Borena	37	37	740	735
	South West Shewa	38	38	760	758
	Guji	38	38	760	759
	Kelem Wellega	39	39	780	778
	Horoguduru Wellega	36	36	720	719
	West Arsi	37	36	740	718
	Region Total	**712**	**709**	**14240**	**14151**
Somali	Shinile	20	20	400	393
	Jijiga	28	28	560	556
	Liben	24	22	480	425
	Region Total	**72**	**72**	**1440**	**1426**
Benishangul-Gumuz	Metekel	30	30	600	600
	Asosa	26	26	520	520
	Kemashi	20	20	400	418
	Mao Komo special wereda	20	20	400	398
	Region Total	**96**	**93**	**1920**	**1859**
SNNP	Guraghe	41	39	820	777
	Hadiya	33	33	660	659
	Kembata_Tambaro	33	33	660	660
	Sidama	45	45	900	895
	Gedeo	34	33	680	658
	Wolayita	39	39	780	778

Appendix III (Continued…)

Region	Stratum	Enumeration Areas		Households	
	Zone/Sp.wereda	Planned	Covered	Planned	Covered
SNNP	South Omo	36	35	720	688
	Shaka	24	24	480	477
	Keffa	37	37	740	739
	Gamo_Gofa	42	41	840	817
	Bench_Maji	36	36	720	719
	Yem Specia Wereda	20	20	400	400
	Dawro	32	32	640	638
	Basketo Special Wereda.	20	20	400	395
	Konta Special Wereda.	20	20	400	399
	Siltie	30	30	600	600
	Alaba Special Wereda.	20	20	400	400
	Segen Peoples' Zone	40	40	800	797
	Region Total	**582**	**577**	**11640**	**11496**
Gambela	Agnuak	24	21	480	627
	Nuer	18	19	360	569
	Mejenger	20	20	400	598
	Etang	18	10	360	300
	Region Total	**80**	**67**	**1600**	**1599**
Harari	**Harari**	**24**	**24**	**480**	479
Dire Dawa	**Dire Dawa**	**24**	**24**	**480**	480
Country Total		**2280**	**2236**	**45600**	**44871**

APPENDIX IV

QUESTIONNAIRE

Ag.S.S. Form **2004**/0

Central Statistical Agency
National Integrated Household Survey
Agricultural Sample Survey, **2012/13 (2005 E.C.)**

Part I - Identification Particulars

1	2	3	4	5
Region	Zone	Wereda	Farmers' Association	Enumeration Area

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

1	2	3		4		5	6	7
Household ID	Name of Household Head	Is there Agricultural Holder in The Household? Yes = 1 No = 2	code	Agricultural / Non - agricultural 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

1	2	3		4		5	6	7
Household ID	Name of Household Head	Is there Agricultural Holder in The Household ? Yes = 1 No = 2	code	Agricultural / Non - agricultural 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 2004/1

Central Statistical Agency
National Integrated Household Survey
Agricultural Sample Survey, **2012/13 (2005 E.C.)**

Part I - Identification Particulars

1	2	3	4	5
Region	Zone	Wereda	Farmers' Association	Enumeration Area

Part II – List of Selected Agricultural Households and Holders

1	2	3		4	5		6		7
Household ID	Name of Household Head	Holder ID		Name of Holder	Farm Type Crop = 1 Livestock = 2 Both = 3 Crop & non-agri=4 Livestck &non-agri=5 All = 6 Non-agri = 7	code	Selection Order		Remarks

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

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Part II – List of Selected Agricultural Households and Holders

1	2	3		4	5		6		7
Househol d ID	Name of Household Head	Holder ID		Name of Holder	Farm Type Crop = 1 Livestock = 2 Both = 3		Selection Order		Remarks
						code			

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

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Form AgSS 2004/2A

CENTRAL STATISTICAL AUTHORITY

ETHIOPIAN AGRICULTURAL SAMPLE SURVEY **2012/13 (2005 E.C.)**

PART I – IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Region	Zone	Wereda	PA / REST.AR	EA LOCAL	HH ID	HH HEAD SEX 1=M 2=F	HOLDER ID	HOLDER'S NAME	AGE	SEX M=1 F=2	HIGHEST GRADE COMPLETED	HOLDER'S HH SIZE	FARMING TYPE CROP=1 LIVEST=2 BOTH=3

PART II – CROP FIELD / OTHER LAND USE

15		16	17					
			PARCEL NO.		FIELD NO.			
			IS THE FIELD MIXED CROP =2		PURE STAND =1 OTHER LAND USE=3			
			CROP/OTHER NAME		CROP NAME		CROP NAME	
SER. NO.		QUESTIONS FOR THE HOLDER	CODE		CODE		CODE	
0	1	Ownership Own = 1 Rented in =2 Other =3						
0	2	Is field under Extension Program? Yes =1 No = 2						
0	3	Is Field Irrigated? Yes =1 No =2						
0	4	If Field Irrigated source of water River =1 Lake =2 Pond =3 Harvested water =4 other =5						
0	5	Is Field Prevented form Erosion Yes = 1 No =2						
0	6	If yes in #5, common way of prevention Terracing = 1 Other =5 Water catchments =2 Afforestation = 3 Plough along the cont. = 4						
0	7	Percent share of mixed crops						
0	8	Number of Fruit Trees *(excluding chat, pineapple, sugarcane*)						
0	9	Number of Fruit Bearing Trees *(excluding , chat, pineapple, sugarcane)*						
1	0	Percentage share of Fruit Bearing Trees *(excluding , chat, pineapple, sugarcane)*						
1	1	Seed / Seedling Type Improved Seed = 1 indigenous seed = 2						
1	2	*For Cereals, Pulses & Oilseeds only* Quantity of improved seeds used	Kilo / Gram		Kilo / Gram		Kilo / Gram	
1	3	*For Cereals, Pulses & Oilseeds only* Price of improved seeds used	Birr / Cents		Birr / Cents		Birr / Cents	
1	4	*For Cereals, Pulses & Oilseeds only* Quantity of indigenous seeds used	Kilo / Gram		Kilo / Gram		Kilo / Gram	
1	5	Was crop damaged ? Yes = 1 No =2						
1	6	If yes in question number 14, Cause of damage Code →						
1	7	Percent of damaged crop						
1	8	Prevention/precaution measure taken? Yes =1 No =2						
1	9	Type of measure if any? Chemical = 1 Non – chemical = 2 Both = 3						
2	0	Chemical type used if any Pesticide =1 herbicide =2 Fungicide =3 1&2 = 4 1 & 3 = 5 2 & 3 = 6 All = 7						
2	1	Is Fertilizer Used? Yes =1 No = 2						
2	2	Type of fertilizer used if any? Natural = 1 Chemical = 2 Both = 3						
2	3	If chemical fertilizer used 23.1 Type UREA = 1 DAP = 2 Both = 3						
		23.2 Quantity of chemical fertilizer used	Kilo	Gram				

2	4	If natural fertilizer used, type Manure = 1 Compost = 2 Organic = 3 1 &2 = 4 1&3 = 5 2 & 3 = 6 All = 7 others = 8								
2	5	How often is temporary crop field used in Meher (main) season?								
2	6	If twice in #24 which crop is the 2nd harvest?	Crop name	code	Crop name	code	Crop name	code		
2	7	What was the previous state of the field ? Falow =1 crop field =2 Virgin =3 Rented in cropfield =4 other =5								

PART 3A: RESULTS OF AREA MEASUREMENTS using GPS

18	19	20	21	22	23	24	25
GPS Accuracy during field measurement	Is the field measured? yes =1 No =2 →						
	Area of measured field		**Is the field** **Flat =1** **Partialy Sloppy = 2** **Sloppy = 3**	**Code**	**If the field covered?** **None , 1** **With plant / permanent crop = 2** **With house = 3** **Partially covered , 4** **Others , 5**	**Code**	**Comments**
	Area in square meters **(Clockwise)**	Area in square meters **(Anti-Clockwise)**					
Field measurement			***Date***		***Month***		

PART 3B – RESULTS OF AREA MEASUREMENTS USING COMPASS-ROPE

18	19	20	21	22	23	24	25	26
Is the field measured?	Yes =1		No = 2		Code →			
Side	1 - 2	2 - 3	3 -	4 -	5 -	6 -	7 -	8 -
Bearing (0)								
Length								
Side	9 -	10 -	11 -	12 -	13 -	14 -	15 -	16 -
Bearing(0)								
Length								
Side	17 -	18 -	19 -	20 -	21 -	22 -	23 -	24 -
Bearing (0)								
Length								
Side	25 -	26 -	27 -	28 -	29 -	30 -	31 -	32 -
Bearing (0)								
Length								
Field Measurement	date	month	**Closure error**		Area in square meters			

For fields selected	Selected corner number		Shortest side length		Random number	
For crop cutting	Shortest side Bearing		Longest side length		Random number	

	Name	**Signature**	**Date**
Data collector			
Field Supervisor			

Form AgSS2004/2B

CENTRAL STATISTICAL AUTHORITY

ETHIOPIAN AGRICULTURAL SAMPLE SURVEY **2012/13 (2005 E.C.)**

PART I – IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Region	Zone	Wereda	PA / REST.AR	EA LOCAL	HH ID	HH HEAD SEX 1=M 2=F	HOLDER ID	HOLDER'S NAME	AGE	SEX M=1 F=2	HIGHEST GRADE COMPLETED	HOLDER'S HH SIZE	FARMING TYPE CROP=1 LIVEST=2 BOTH=3

PART II – MISCELLANEOUS QUESTIONS FOR THE HOLDER

15	16	17	
SER.NO.	QUESTIONS	CODE	
1	Do you exercise crop rotation on your land holing? Yes = 1 No = 2		
2	Reason for not using chemical fertilizers on any one of your crop fields Ignorance = 1 High price = 2 Lack of Money = 3 Non – availability of supply = 4 lack of credit service =5 Skeptical of the outcome = 6 Others (specify) = 7		
3	Reason for not participating in Extension Program Ignorance = 1 Lack of Money = 2 Skeptical of the outcome = 3 Non – availability of the program = 4 Lack of adequate crop fields = 5 Others (specify) = 6		
4	Do you get credit services? Yes = 1 No = 2		
5	If no in # 4 Why? Non availability of the service = 1 Unable to pay the loan = 2 Inadequate services provided = 3 Ignorance = 4 Does not yield any results = 5 Others = 6		
6	Do you get advisory services? Yes = 1 No = 2		
7	If no in # 6 Why? Non availability of the service = 1 Inadequate services provided = 2 Inadequate services provided = 2 Ignorance = 3 Does not yield any results = 4 Others = 5		
8	Your major supplier of fertilizer is Government organizations = 1 Private organizations = 2 Merchants = 3 Others (Specify) = 4 Never used fertilizer = 5		
9	Total Chemical fertilizers (Urea+Dap) purchased for main season in 2003 E.c (it includes gifts, loans, supports)	Killo	gram
9.1	Total Dap fertilizers purchased for main season in 2003 E.c (it includes gifts, loans, supports)		
9.2	Total Urea fertilizers purchased for main season in 2003 E.c (it includes gifts, loans, supports)		
10	How many oxen do you have in this Meher season?		
11	If you have one or no ox how do you plough? By renting ox = 1 By pairing mine with someone's ox = 2 By pairing mine with cow/ horse =3 Using horses or cows = 4 Hand digging = 5 Using borrowed oxen = 6 others = 7		
12	Total number of fields recorded for the holder		
13	Total number of crop fields recorded for the holder		
14	Has the holder ploughed additional fields over that of the previous year? Yes =1 No = 2		
15	If yes in question # 13, what was the previous state of the additional fields? Holder's virgin land = 1 Public/ Community virgin land = 2 Borrowed fallow land = 3 Other = 4		

Form AgSS. 2004/4

CENTRAL STATISTICAL AUTHORITY

ETHIOPIAN AGRICULTURAL SAMPLE SURVEY **2012/13 (2005 E.C.)**

Part I – Identification Particular

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Region	Zone	Wereda	Farmers' Association	E.A	Household ID	Household Head Sex M = 1 F = 2	Holder ID	Holder's Name	Holder's Age	Holder's Sex M = 1 F = 2	Educational Level Highest grade Completed	Household Size	Holding type Crop = 1 Livestock = 2 Both = 3

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

15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
				Crop name																			
Parcel No.	Field No.	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.	Field No.	Selected Field No.

Form AgSS. 2004/5

CENTRAL STATISTICAL AUTHORITY
ETHIOPIAN AGRICULTURAL SAMPLE SURVEY **2012/13 (2005 E.C.)**

Part I – Identification Particular

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Region	Zone	Wereda	Farmers' Association	E.A	Household ID	Household Head Sex M = 1 F = 2	Holder ID	Holder's Name	Holder's Age	Holder's Sex M = 1 F = 2	Educational Level Highest grade Completed	Household Size	Holding type Crop = 1 Livestock = 2 Both = 3

Part II – Temporary Crop Cutting Results

15	16	17	18	19		20		21		22		23	24	25	26	27	28
Parcel No.	Field No.	Crop name	code	Crop cutting day	Crop cutting month	Fresh Weight Of the harvest Kilo	Fresh Weight Of the harvest Gram	Dry Weighing Day	Dry Weighing Month	Dry Weight Kilo	Dry Weight Gram	Was the Crop used before harvest Yes = 1 No = 2 code	Was there any crop damage? Yes = 1 No = 2 Code	If yes Cause of damage	Code	Percent of crop damaged	Crop Stand Pure stand = 1 Mixed = 2 code