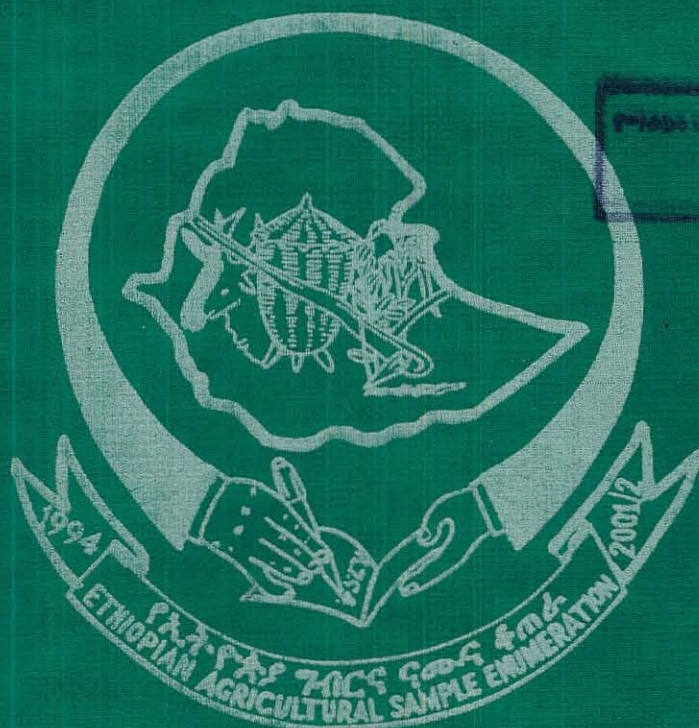


**FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA
CENTRAL AGRICULTURAL CENSUS COMMISSION**

**ETHIOPIAN AGRICULTURAL
SAMPLE ENUMERATION, 2001/02 (1994 E.C.)**



**REPORT ON
THE PRELIMINARY RESULTS OF AREA, PRODUCTION
AND YIELD OF TEMPORARY CROPS
(MEHER SEASON, PRIVATE PEASANT HOLDINGS)**

PART I

**ADDIS ABABA
OCTOBER, 2002**

1/5 HGA.0002256.100

**FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA
CENTRAL AGRICULTURAL CENSUS COMMISSION**

**ETHIOPIAN AGRICULTURAL
SAMPLE ENUMERATION, 2001/02 (1994 E.C.)**



የጥናት ደብዳቤ ለመጽሐፍት
ደብዳቤ ለመጽሐፍት
C. S. A. Library

**REPORT ON
THE PRELIMINARY RESULTS OF AREA, PRODUCTION
AND YIELD OF TEMPORARY CROPS
(MEHER SEASON, PRIVATE PEASANT HOLDINGS)**

PART I

ADDIS ABABA
OCTOBER, 2002

**PREPARED AND PRINTED BY
CENTRAL STATISTICAL AUTHORITY
P.O.BOX 1143 ADDIS ABABA
Tel. 55-30-11**

FOREWORD

An agricultural census, which would serve as a source of benchmark data for the sector has not been conducted in Ethiopia. However, in order to provide basic agricultural information to data users, annual agricultural sample surveys have been carried out since 1980/81 by the Central Statistical Authority (CSA). Although, these annual surveys have some limitations on scope, coverage and level of disaggregation, it has served as a means of narrowing the data gap in the sector.

On the other hand, the CSA has put a number of requests to the concerned government authority to initiate the undertaking of a National Agricultural Census several times. That is, it has submitted a project proposal immediately after the launching of the 1984 National Population and Housing Census. Moreover, it has also attempted to materialize this census in late 1980's and in early 1990's i.e. immediately after the undertaking of the 1994 National Population and Housing Census. The attempt continued till CSA got a positive response from the government in 1998. Hence, the CSA has been carrying out the Agricultural Census preparatory activities from September 1999, to August 2001.

Thus, to overcome the above-mentioned limitations of the Annual Agricultural Sample Surveys and provide a benchmark data on the agriculture sector, the CSA launched the fieldwork of the first ever Ethiopian Agricultural Sample Enumeration in September 2001. Prior to launching the sample enumeration a number of preparatory activities such as the preparation of the census documents, undertaking the pretests and pilot censuses ...etc were also carried out.

The 2001/02 Ethiopian Agricultural Sample Enumeration was launched under the auspices of the Ethiopian Agricultural Census Commission that was set up

under Proclamation No. 238/2001. The Commission is chaired by the Prime Minister and the members of the Commission are drawn from various relevant Federal Ministries and other government organizations. The Central Statistical Authority serves as the Office of the Secretariat for the commission. Hence the collection, processing, evaluation and analysis of the census data as well as its dissemination are the responsibilities of this office.

The 2001/02 Ethiopian Agricultural Sample Enumeration is a huge nation wide operation, which could not be undertaken by a single organization. Hence, in order to enhance and facilitate the census enumeration activities Regional, Zonal, and Wereda Census Commissions have been established and Census Committees were set-up at kebele levels. In the conduct of this census, full cooperation and assistance of government and non-government organizations, external donor agencies and the public in general has been obtained.

It is worth mentioning that the 2001/02 Crop Production Forecast Report, which is the first phase of the Agricultural Census was prepared, printed and disseminated to agricultural data users in December, 2001.

This is the second census report that deals with the preliminary results of area under crop, production and yield of temporary crops consisted of cereals, pulses, oil seeds, vegetables and root crops for Meher Season. It should be noted that during the census, huge sets of data on agriculture and related topics were collected. Given the limited resources (skilled manpower, computers...) available at the head quarters, data processing and summarization of results require quite longer period, than originally expected.

In addition, before finalizing and officially releasing one set of agricultural data, the different sets of the resulting census data have to go through various and

tedious consistency checks and this also will take quite few months.

However, the Agricultural Census Commission Secretariat believes that releasing of a preliminary census result on crop area, production and yield of temporary crops for Meher Season will, to some extent, satisfy the data users' immediate demand. Hence, this report presenting the preliminary census results (subject for some changes) on area under crop production and yield of temporary crops is released ahead of the final census reports.

The Office of the Ethiopian Agricultural Census Commission would like to thank all government and non-government agencies who participated in the organization of the census, the supervision of the field work, the data collection, and the respondents who participated in providing the necessary information. The Ethiopian government has given huge financial and unreserved administrative support in undertaking the 2001/02 Ethiopian Agricultural Sample Enumeration. This indicates the continuous commitment and high priority offered by the Ethiopian Government for the development of the agricultural sector statistics and the other socio-economic and demographic statistics.

The Office would also like to take this opportunity to express its many thanks to the United States Agency for International Development (USAID) for its generous financial and technical assistance for the census. Moreover, thanks are due to the European Union (EU) for its financial assistance and the British Department for International Development (DFID) for its material assistance for the census.

Abdulahi Hassen (Ph.D.)

Member and Secretary,
Central Agricultural Census Commission

TABLE OF CONTENTS

	<u>PAGE</u>
Foreword	i
Table of Contents	iv
List of Statistical Tables.....	vii
List of Summary Tables.....	viii
CHAPTER I: BACKGROUND.....	1
1. Introduction.....	1
2. Objectives of the Census.....	2
2.1 The General Objectives	3
2.2 The Specific Objectives	3
CHAPTER II: CENSUS METHODOLOGY AND OPERATIONS.....	5
1. Introduction	5
2. Census Methodology.....	9
2.1 Scope and Coverage.....	9
2.2 Sampling Frame.....	9
2.3 Sample Design.....	10
2.4 Sample Selection of Primary Sampling Units.....	11
2.5 Listing of Households and Selection of Agricultural Households.....	11
3. Census Operations.....	12
3.1 Organization of Field work	12
3.2 Training.....	13
3.3 Method of Enumeration.....	15

	<u>PAGE</u>
3.4 Census Forms and Field Equipment.....	16
3.4.1 Census Forms.....	16
3.4.2 Field Equipment.....	18
3.5 Quality Control in Data Collection.....	19
3.5.1 Concepts and Definitions.....	21
4. Data Processing.....	23
4.1 Editing, Coding and Verification.....	23
4.2 Data Entry, Cleaning and Tabulation.....	24
 CHAPTER III: PRELIMINARY RESULTS OF THE	
CENSUS ON AREA, PRODUCTION	
AND YIELD OF CROPS	
	27
1. Introduction.....	27
2. Area, Production and Yield of Crops.....	29
2.1 Cereals.....	30
2.2 Pulses	37
2.3 Oilseeds	41
2.4 Vegetables and Root Crops	46
2.4.1 Vegetables.....	46
2.4.2 Root Crops.....	50
3. Measures of Precision of Estimates	54
APPENDIXES.....	125
APPENDIX 1: Estimation Procedures of Totals,	
Ratios and Sampling Errors.....	127
APPENDIX 2: Standard Errors and Coefficient of	
Variations (CVs.).....	131

APPENDIX 3: Number of EAs and Agricultural Households Sampled And Covered by Zone	199
APPENDIX 4: Relevant Questionnaires.....	201

LIST OF STATISTICAL TABLES

Estimates of Area, Production, and Yield of Temporary Crops for
Private Peasant Holdings for Meher Season, 2001/02 (1994 E.C.)

- TABLE 1 _ Ethiopia
- TABLE 2 _ Tigray
- TABLE 3 – Afar
- TABLE 4 – Amhara
- TABLE 5 – Oromia
- TABLE 6 – Somali
- TABLE 7 – Benishangul-Gumuz
- TABLE 8 – S.N.N.P.
- TABLE 9 – Gambella
- TABLE 10 – Harari
- TABLE 11 – Addis Ababa
- TABLE 12 – Dire Dawa

LIST OF SUMMARY TABLES

	PAGE
TABLE II.1:- Areal Coverage of the 2001/02 (1994 E.C) Agricultural Sample Enumeration.....	10
TABLE III.1:- Summary Table Series to Help Guide Census Data Users Below National Levels.....	29
TABLE III.2:- Summary Table on Area, Production and Yield of all Temporary Crops, for Private Peasant Holdings, by Crop in 2001/02 (1994 E.C).....	31
TABLE III.3:- Summary Table on Area, Production and Yield of Cereals for Private Peasant Holdings by Region in 2001/02 (1994 E.C).....	33
TABLE III.4:- Summary Table on Area, Production and Yield of Pulses for Private Peasant Holdings by Region in 2001/02 (1994 E.C.).....	40
TABLE III.5:- Summary Table on Area, Production and Yield of Oilseeds for Private Peasant Holdings by Region in 2001/02 (1994 E.C).....	44
TABLE III.6:- Summary Table on Area, Production and Yield of Vegetables for Private Peasant Holdings by Region in 2001/02 (1994 E.C.).....	49
TABLE III.7:- Summary Table on Area, Production and Yield of Root Crops for Private Peasant Holdings by Region in 2001/02 (1994 E.C.).....	52

CHAPTER I

BACKGROUND

1. Introduction

A nation has to feed its people adequately to have healthy and wealthy citizens for the promotion of its development and growth. A government concerned with the well being of its people and aiming at the rectification of the national economy makes agriculture its top priority for the achievement of the above goals. Policy making and decision taking are essential in this regard. But there are recognized constraints such as the availability of adequate and comprehensive statistical data on agriculture that guides policies and decisions for attaining development targets in the agricultural sector

In recognition of these constraints, and in an effort to provide accurate, reliable and timely data on the nation's agriculture that policies and decisions entail, the Central Statistical Authority (CSA) has been conducting annual agricultural sample surveys since 1980/81 (1973 E.C.). As a result, data on area, production and yield of major crops such as cereals, pulses and oil seeds have been produced at country, regional and zonal levels for both Meher and Belg seasons on a yearly basis.

Despite this effort, the economic policy has recently focused on agricultural sector and data users became more sophisticated demanding for various data in greater detail on timely basis, with improved accuracy and reliability and highly disaggregated to levels where project planning and implementation take place. Hence, the existing data that has resulted from the regular annual agricultural sample survey could not meet these demands. Accordingly, these needs led the CSA to reappraise the agricultural data it has produced so far and realized the gap between the demand for agricultural data and the data supplied is widening. Thus, as an organization situated between the data and its users, the CSA was

prompted by the gravity of the demand for more detailed data to embark upon a census of agriculture in the year 2001/02 and narrow the existing data gap.

Development and monitoring of the agricultural sector require data on a wide range of indicators. A census of agriculture is the leading source of such data. It provides an image of a nation's farming and agricultural activity at a particular point in time (an agricultural production year) for the data disaggregated at the lowest level of reporting.

In Ethiopia, prospects and policies regarding agriculture have evolved significantly over recent years. Economic problems have been the major factor in development and implementation of these policies and programs. The agricultural policies and programs are targeted at ensuring that food crops will be made available to those who need it and don't obtain enough of it or guaranteeing everyone access to safe and nutritious food. To put it in a nutshell: it is to create and maintain food security. The realization of this goal requires the implementation of the policies and programs at wereda level and make available agricultural statistics at corresponding administrative level. It is against this background that the census was conducted to monitor the trends and the changing patterns in agricultural production with the acquisition of agricultural statistics at wereda, zonal, regional and country levels.

2. Objectives of The Census

There are fundamental problems prevailing in the agricultural sector that are especially affecting the rural population and often perceived as the maladies of the Ethiopian economy. In order to solve these problems gradually but steadily, the Ethiopian government has been developing various agricultural programs and schemes. However, currently the Ethiopian Government is in the process of attempting to seek immediate solutions to these problems by

designing various agricultural policies and programs. To effect these programs and meet other objectives, the census is the appropriate method of data collection for providing much needed and more detailed statistical information on agriculture.

2.1 The general objectives are to: -

- Provide benchmark data on the structure of agriculture for planning, policy making and other uses during intercensal years,
- Provide detailed data at lower administrative level,
- Use the census as a vehicle for developing the national agricultural statistics system,
- Secure data for items whose production is limited (rare crops),
- Secure benchmark data for improving the annual agricultural sample survey in the future,
- Make use of the census experience and trained personnel for capacity building and strengthening the Ethiopian Statistical Authority in the field of agricultural statistics, and
- Develop data bank with facility for updating consistency checks and retrieval of data in various forms tailored to the needs of the users.

2.2 The specific objectives are to provide: -

- Basic information on the country's agriculture to the government for formulating and implementing timely food security measures and to alert policy makers about the food situation in the country,
- Information to the government to develop and monitor farm programs, study historical trends, appraise current conditions and plan for the future,
- Information for the government to design and allocate funding for extension service projects, and

- Data for the private sector in order to execute the effective production and distribution system in the agricultural sector.

Part I of this report presents the preliminary results of the census on area and production of crops for Meher season of the year 2001/02 (1994 E.C). It is one of a series of reports conveying the results of the census. It carries information on area, production and yield of cereals, pulses, oilseeds, vegetables and root crops produced within the private peasant holdings in the rural areas of the country. The report comprises four chapters: Chapter I which presents background and the objectives of the census, Chapter II which discusses the census methodology and operations is composed of scope and coverage of the census, sampling frame, sample design, sample selection, organization of field work, training of field staff, data collection, concepts and definitions and data processing, Chapter III deals with the presentation of the preliminary results of the census on area, production and yield of cereals, pulses, oilseeds, vegetables and root crops at country, regional and zonal levels.

Moreover, it presents Appendix I that shows Estimation Procedures of Totals, Ratios and Sampling Errors; Appendix II provides Standard Errors and Coefficient of Variations (CV's); Appendix III gives the number of E.A.'s and Agricultural Households Sampled and Covered by Zone; and Appendix IV shows the relevant Questionnaire for area, production and yield of crops.

Part II of this report presents Chapter I which provides information on the background and objectives of the census. Also in Chapter IV, it presents the series of statistical tables that show the data on cereals, pulses, oilseeds, vegetables, and root crops at wereda level for all the regions. Moreover, it presents all the appendixes, except Appendix II, that are given in Part I of this preliminary report.

CHAPTER II

CENSUS METHODOLOGY AND OPERATIONS

1. Introduction

As explained in the introductory chapter of this publication, the census of agriculture is a large-scale, periodic statistical operation for the collection of quantitative information on the structure of agriculture. Such a huge operation demands sequence of standard activities. In order to collect, process and produce reliable and internationally comparable data, the different technical procedures and operations that have to be applied during the census should follow what has been globally recommended.

Hence, this chapter highlights what has been exercised before and during the census operations in areas of subject and area coverage, census methodology, (such as sampling frame, sample design, listing and selection of primary sampling units and households), and census operations that included organization of field work, training, method of enumeration, quality control and data processing.

The scope of the agricultural census concerns the type and dimension of data to be collected. When the CSA has launched the planning of the census, it solicited the demand of data from various government and non-government organizations which are the major users of the resulting census data. The response was just overwhelming and put the CSA in an awkward position to decide on the scope. The decision on the range and extent of data items to be dealt with by the census is really hard to make given the size of the country's population engaged in agriculture, the limited human and financial resources, and the magnitude of the census work. The CSA had to strike a balance between

the scope on the one hand and the available resources and time on the other hand so that there was a trade-off between the two.

Since the census of agriculture is not a frequent data collection activity, it is best suited for collecting more data on various characteristics relating to area and production of crops. It lends the opportunity of capturing as much data as possible, especially when it is conducted for the first time. But agricultural census is not a practical means of providing all data. Not all agricultural statistics can be collected through a census of agriculture. Hence, there was caution against overloading the agricultural census forms with extensive scope. Thus, with regard to the scope, the census had to be restricted to a coherent and manageable range of data items.

In light of these problems, the Ethiopian agricultural census provides the essential data on the organization and structure of the crop production sector for the agricultural calendar year of 2001/02. It covers statistics on area, production and yield of temporary crops harvested in the farming seasons of Meher as well as Belg in the country for the indicated crop year. The principal temporary crops on which data have been collected are cereals, pulses, oilseeds, vegetables and root crops. The types of holdings covered are peasant farms, commercial farms (private, state, cooperative, and institutional). Unlike the annual agricultural sample survey, which covers only peasant holdings in the rural areas, the census has covered holdings in both the rural and the urban sedentary areas of the country. The data collection on the production of vegetables and root crops, which was not covered by the annual agricultural sample survey, was also included in the census.

Ethiopia is a large country with an estimated population of more than 67 million in July 2002 and an area of 1.1 million sq. kms. At the time of the census, for

administrative purposes, the country was divided into 11 regional states, 68 zones and 540 weredas. Agriculture is practiced by more than 85% of the population. It is the single biggest employer, with 70.4% of the economically active population engaged in the sector (CSA, 1998). Moreover, it is the major foreign exchange earner and the livelihood of the vast majority of the Ethiopian people depends on agriculture. The sector is further characterized by extremely small holdings, mostly private peasant holdings, dispersion of cropland holdings, traditional farming and low level of literacy among the holders.

The cost of data collection is one of the most important factors in the planning and execution of a census. In a country like Ethiopia where in addition to the problems mentioned above, transportation and communications are poor and the resources available are limited to meet the cost of a census tend to be major problems. The problem is more pronounced when deciding on the extent of census coverage.

A decision whether to carry out a complete enumeration or to plan a sample enumeration of holdings depends on the availability of resources and the level at which the census results are required. This holds true whether the results will be provided at wereda level or higher administrative hierarchies. With these constraints and extremely large number of holdings in the country's agricultural system and considering the huge cost required and timely production of the data, with the aim of providing the results at wereda level where almost all the agriculture is undertaken by small holders, a census of agriculture on the basis of sample enumeration was adopted by the CSA. In a census that aims in securing data on more agricultural items with reasonable accuracy at wereda level, a well-defined sample enumeration is more manageable, efficient and is expected to produce equal or better quality data than a complete enumeration and is able to provide results in a more timely fashion.

As a census of agriculture is distinct from a sample survey by its extensive, even if not total coverage of holdings, the Ethiopian Agricultural Census is expected to achieve national coverage in two phases. In the first phase data was collected in the rural areas of all sedentary weredas in the country which also covered all commercial farms (private, state, cooperative, and institutional farms) and all urban areas of the country. In the second phase of the census data collection is expected to be carried-out in the pastoralist areas of the Somali and Afar regions in the near future.

The Ethiopian Agricultural Sample Enumeration has covered adequately representative and sufficiently large number of units (holdings) engaged in agriculture both in urban and rural areas to produce relatively reliable data at wereda level. For the purpose of this census, three farming categories have been identified: rural private holdings, urban private holdings and commercial farms. All the categories have been treated in the census on sample bases except the last one that was enumerated completely. These farming categories were enumerated at different times of the census year in order to capture the data as the events happened. The census data collection operation took about six months for Meher Seasons and 2 months for Belg Season to cover the rural private holdings, about 10 days to cover the urban private holdings and about one month to cover the commercial farms.

In order to improve the coverage, there has been extensive census publicity in the census operation exercise. This helped to sensitize and gain the cooperation of the respondents during data collection. In these efforts, adhoc census committees have been established and replicated to the lowest level of administration that is Farmers Associations and this helped the smooth conduct of the census and raising public awareness to achieve the intended coverage.

2. Census Methodology

2.1 Scope and Coverage

The 2001/02 (1994 E.C.) Ethiopian Agricultural Sample Enumeration (EASE) was designed to cover the rural and urban parts of all weredas in the country on a large-scale sample basis. This coverage encompasses the 460 weredas in 58 administrative zones of the country excluding the pastoralist areas of the Afar and Somali Regional States. In these weredas the originally selected primary sampling units amounted to 11,292 Enumeration Areas (EAs). These EAs were selected at wereda level to be covered in the EASE, in order to provide data on agriculture at these administrative levels in the country. For this report, however, the number of EAs, which were completed and found to be acceptable for tabulation, amounted to 11,189. However, the remaining 103 EAs were not fully or partially covered due to various reasons. With respect to ultimate sampling units (agricultural households), it was planned to cover 338,760 agricultural households.

Based on the results of the survey, the overall coverage rate of sample EAs was 99.1 percent and the overall response rate of sampled agricultural households was 98.8 percent. The final coverage of sampled EAs and agricultural households and response rate for each zone are given in Appendix 3.

2.2 Sampling Frame

The list of enumeration areas for each wereda was compiled from the 1994 Ethiopian Population and Housing Census cartographic work and was used as the frame for the selection of the Primary Sampling Units (PSU). The 1994 census enumeration maps for the sample EAs were updated, and the EA boundaries and descriptions were further clarified to reflect the current physical situation. The sampling frame used for the selection of ultimate sampling units

(agricultural households) was a fresh list of households, which was prepared by the enumerator assigned in the sampled EAs using a prescribed listing instruction at the beginning of the launching of the census enumeration.

TABLE II.1: AREAL COVERAGE OF AGRICULTURAL SAMPLE ENUMERATION 2001/02 (1994 E.C.)

Region	Number of Zones (Rural)		Number of Weredas Covered in the Census
	Total	Covered in the Census	
Tigray	4	4	34
Afar	5	2	6
Amhara	10	10	101
Oromia	12	12	188
Somali	9	3	8
Benshangul-Gumuz	3	3	20
S.N.N.P.R	19	19	93
Gambella	2	2	7
Harari	1	1	1
Addis Ababa Administrative	6*	2 (Considered as one)	5 (Consider as one)
Dire Dawa Administrative	1	1	1
Total	72	58	460

* Urban zones (all zones were considered as one zone)

2.3 Sample Design

In order to meet the objectives and requirements of the EASE, a stratified two-stage cluster sample design was used for the selection of ultimate sampling units. Each wereda was treated as stratum for which major findings of the sample census are reported. The primary sampling units were enumeration areas and agricultural households were the secondary (ultimate) sampling units. The

various census forms were administered to all agricultural holders within the sampled agricultural households.

A fixed number (25) of sample EAs in each wereda and 30 agricultural households in each EA were randomly selected (determined). The sample size determination in each wereda and thereby in each EA was based upon the required precision level of the major estimates and the cost consideration. The pilot survey and the previous year annual agricultural sample survey results were used to determine the required sample sizes per wereda. In the case of Addis Ababa, the region has about 28 weredas, however, rural areas prevail only in five of the weredas. As a result, all the rural EAs numbering 35 have been covered in the EASE.

2.4 Sample Selection of Primary Sampling Units

Within each wereda (stratum) the selection of EAs was carried out using probability proportional to size, size being total number of agricultural households obtained from the listing exercise undertaken in the 1994 Ethiopian Population and Housing Census.

2.5 Listing of Households and Selection of Agricultural Households

In each sampled enumeration areas a complete fresh listing of households was carried out by canvassing the households in the EA. After a complete listing of the households and screening of the agricultural households during the listing operation in the selected EA, the agricultural households were serially numbered. From this list, a total of 30 agricultural households were selected systematically using a random start from the pre-assigned column table of random numbers. The sampling interval for each EA was determined by dividing the total number of agricultural households by 30. For crop cutting

exercise purposes a total of 20 agricultural households were randomly selected from the 30 sampled agricultural households. The systematic random sampling technique was employed in this case, because its application is simple and flexible, and it can easily yield a proportionate sample.

Estimation procedure of parameters of interest like total, yield and ratio and their sampling error is presented in Appendix 1. Standard errors and coefficient of variation of estimates are given in Appendix 2.

3. Census Operations

3.1 Organization of Field Work

The magnitude of the census operation was a challenge to the CSA to organize and mobilize human, material and financial resources. But the CSA's capacity was enhanced to cope with these limitations, especially the logistics involved in the operation by the issuance of the Agricultural Census Act and establishment of adhoc structures.

Since the census operation was too large to direct and control effectively from the Head Quarters, field organization was used as a link between the sources of data and the central office. Field organization comprised the branch statistical offices, supervisors, enumerators, other support staff, logistics and the adhoc structures. The structures included the setup of committees, which went down to the lowest administrative hierarchies to enlist support and cooperation from the local people.

In addition to the committees, the CSA opened 25 additional temporary Branch Census Offices on top of the already existing 22- Statistical Branch Offices. Commendable cooperation and assistance were also extended by other government and non-government organizations at different stages of the census.

The field organization was required for the data collection operations and for the strict control and supervision of the fieldwork. The enumerators were the responsible field staff for data collection. They were full time enumerators hired on a contract basis. Most of them were recruited from localities in which they were supposed to work for the census. For undertaking the census of the private peasant holdings in the rural areas, a total of 12,398 enumerators were recruited, trained and hired, of whom 1199 were held as a reserve. The enumerators had an educational background of grade 12 and above. They lived in their places of assignment during the census. Each enumerator had a guide and an assistant who are familiar with the people and well informed about the agricultural practices in the area.

The CSA permanent supervisors were responsible for recruitment, selection, and training of enumerators, and census supervisors. Moreover, they were responsible for supervision of data collection, remuneration, retrieving and dispatching the completed forms to their respective Branch Statistical Offices. They were also responsible for handling administrative and other technical problems. A total of 2,240 supervisors were involved in the census. The supervisor-enumerator ratio was 1:5 and supervision was carried out on regular basis. The supervision was coordinated and monitored by professional staff of the CSA. The logistics equipment of the census included programmable calculators, field compasses, measuring tapes and kitchen balances each numbering about 14,000. Moreover, it included 273 four wheel drive vehicles and numerous other instruments. Each enumerator was provided with all the necessary logistics equipment for the data collection.

3.2 Training

The success of a census operation and data quality depend on the type of training given to the enumerators and supervisors. The training helps the

enumerators and supervisors secure a common understanding of the tasks to be performed and the standard procedures to be followed in census undertaking. Good data quality is assured when the training meets its objectives and the enumerators and supervisors show a sense of responsibility and enthusiasm in the exercise of the census operation.

In view of the above point, the CSA organized a two stage training programme, that is, training of trainers followed by training of the field staff. The first stage training was given at the CSA Head Quarters to the trainers consisting of professional staff from the CSA Head Quarters and the CSA Branch Statistical Offices and other relevant federal, regional and zonal government organizations and senior CSA supervisors. The training that lasted for 30 days, included classroom sessions, field practices and demonstrations 550 trainers took part in the training.

The first stage training was then followed by the second stage training, which took place in 47 training centers located in different zones. The trainers spread out to the training centers across the country to give similar training to enumerators and supervisors. Extensive training was given to the field staff. The instructions in the training focused more on the procedures and techniques of data collection and the responsibility shouldered both by the enumerators and the supervisors. The instructions, details of techniques and procedures of enumeration were contained in the manual. The manual served as an instruction text and a reference guide. The rigorous theoretical training was emphasized by a series of field practice and demonstrations. After about 50 days of training and practice, a centrally prepared examination was given to the enumerators and supervisors. Based on the examination results only those enumerators who passed the exam were hired and assigned to their enumeration areas.

3.3 Method of Enumeration

In Ethiopia where a significant number of the farming population live in remote and inaccessible areas, data collection is time consuming and cumbersome. The problem is further aggravated by the large number of peasant holding operators, their geographical spread, high level of illiteracy among the operators and scattered land holdings. In such a situation where the agricultural statistics system has not been fully developed, besides the above problems, the appropriate enumeration method is house to house interviewing of holders and objective measurement of their holdings and crop yields.

Accordingly, most of the information on crop area and yield was elicited from the holders through interview and the remaining information was obtained by physically measuring the data items of interest. This was done by enumerators who identified the selected holders, interviewed them, measured all their crop fields using measuring tapes, field compasses, and scientific calculators. Moreover, they harvested and weighed the yields obtained using kitchen balances from plots of randomly selected crop fields.

As in many countries, a phased approach to the census was also used in Ethiopia in order to make the workload of manageable size and capture the data as the events unfolded. Data on crop area and other items was collected in the third phase of the census by visiting the farm operators and physically measuring the crop fields since the farmers are not familiar with standard units. All crop fields of the randomly selected holders in each enumeration area were measured using the FAO recommended method. That is, first by identifying the boundaries of the fields, determining their shape which was mostly irregular and taking compass bearings of each side with respect to the north. This is followed by measuring the length of each side of the field and using a programmable

calculator to arrive at both the area of the field and the closure error. The objective of arriving at the closure error is to find out how well the field was measured.

The responses to the interview and results of the measurement were recorded on a structured questionnaire. The interview method helped on the spot clarification of objectives, concepts and form of information sought from the respondents during the interview.

Since crop production is a function of area and yield, yield measurement was done using the crop-cutting method. The method involved crop-cutting from small subplots of rectangular shape of different sizes randomly placed in the selected crop field for each crop type and subsequent threshing, drying and weighing and recording the weight of the harvest. The crop cutting was performed for a sub-sample of 20 out of the 30 households selected in each enumeration area. A 4x4 meter plot was randomly demarcated for cereals, pulses, and oil seeds and one square meter or 1 meter x 2 rows plot was designated for vegetables and root crops for the crop-cutting exercise.

The yields harvested from the plots were immediately weighed (green weight) and /or weighed again after two weeks of drying to conform to the normal holder harvesting and drying practices. The green and dry weights were recorded on the appropriate form.

3.4 Census Forms And Field Equipment

3.4.1 Census Forms

Forms and equipment are instrumental in gathering information from various sources. The census forms are the vehicle and basic document for collecting the desired data. These include general-purpose forms covering area, production

and other activities concerning cereal crops, pulses, oil seeds, vegetables and root crops. These forms are formulated for recording data generated through interview as well as objective measurements.

Although the planning, organization and execution of the census were the responsibilities that rested within the CSA, development of the census forms was a tedious task that involved the formation of a working group composed of members of government and non-government organizations who are major users of agricultural data. Members of the working group were given the opportunity to identify their data requirements, define the needs of others and determine the specific questions that the forms should contain. The working group included the staff of the organizations that are involved in agricultural planning, collection of agricultural statistics and the use of data within the agricultural sector.

The working group designed different forms for the various data items on crop area, production, and other variables of interest to meet the needs of current data users and also considered the future expectations. Attempt was made to make the content of the forms of acceptable length by distributing the variables to be collected in the different census forms. As can be partly observed in Appendix IV, these forms included:-

- ◆ The listing forms 94/0 and 94/1 that are used to record all households in the enumeration area, identify the agricultural households and select the units to be covered by the census.
- ◆ Forms 94/3A and 94/3C are prepared to enumerate crop data through interview and objective measurement.
- ◆ Form 94/5 is designed to record crop area data via the physical measurement of crop fields.

- ◆ Forms 94/7A and 94/7B are developed for recording yield data on cereals, oil seeds, pulses, vegetables and root crops by weighing their yields obtained from sub-plots designated for crop-cuttings.

The clarity of the forms was reinforced by the enumerators' as well as the supervisors' instruction manuals that dealt with an extensive elaboration on data collection with regard to the variables in the various forms.

3.4.2 Field Equipment

A census of agriculture involves the coverage of a large number of variables. Moreover, most of the data (variables) needed are of quantitative nature. But, as in most developing countries where illiteracy is high, holders in Ethiopia neither keep the records of the size of their holdings' and amount of their crop production, nor do they know standard units to measure the size of land they operate and volume of crop they produce. Under such circumstances, collecting data only through an interview has many limitations and it is not easy for an enumerator to obtain relatively accurate information on the volume of production and area under crops.

In order to overcome these shortcomings in the census, quantitative data on area under crop and yield of crops have been collected through objective measurements from designated plots of crop field. Fields under crops were measured by compass traversing. That is, by measuring the lengths of the sides of each crop field and taking compass bearings. Measuring tapes each 20-50 meters, compasses with a half degree precision, metal pegs and programmable calculators for computing the area were used. Besides the above equipment, balance scales and bags made of cloth were used for yield measurements and drying. Area and yield measurements were the most cumbersome and time

consuming aspects of the census as the enumerators had to visit all the fragmented and scattered crop fields of the holders.

3.5 Quality Control in Data Collection

The quality of official agricultural statistics should be relatively high in order to provide maximum benefit to users. The CSA, as a producer of statistics, has been concerned about the quality of the data right from the conception of the agricultural census. It has made every endeavor to maintain the data quality by lending more attention to those aspects of the census that affect the quality of the data.

Nearly all census activities starting from the design of the questionnaires to data processing have significant impact on the quality of data. Efforts have been put into each activity of the census to assure data quality. Forms were designed sufficiently in advance of the commencement of the census enumeration in the field in order to have ample time for pre-testing, under-taking the pilot census and providing training to the enumerators. The forms were pre-tested in different parts of the country for three times in addition to their application in the pilot census. Concepts and definitions used in the forms were expounded in the instruction manual. Attempts were made to formulate the questions with clarity and logical order. Questions about different subjects were written on different forms to avoid the mix of issues and restrict the length of the forms. An enumerators' instruction manual was prepared and used as a training and reference guide to help the enumerators in understanding clearly all the details and procedures followed in the census and answer questions raised during the interviews. It contained questions on the forms with explanations, concepts, definitions, techniques of interviewing, duties and obligations of enumerators.

A separate instruction manual was also prepared for supervisors in a similar fashion to all intents and purposes of supervision.

Training and supervision are also factors that affect data quality. The standard of training given to enumerators and supervisors is well reflected in the census results. With this in mind, the CSA offered a rigorous and thorough training to the enumerators and supervisors. Ample time has been allotted to it to help the trainees grasp the theoretical and practical aspects of data collection. The training sessions were repeatedly supplemented by field practice and demonstrations to reinforce the trainees understanding of the course. A written examination was given to all the trainees to screen and assign the best ones for the census. The supervisors have had a separate training in supervision in which the responsibilities of supervisors, field supervision, checking and editing completed forms and preparations of progress reports were reiterated. The supervisors reviewed the enumerators' work, re-interviewed samples of holders and re-measured samples of fields as part of supervision to verify the enumerators' work.

Data quality is also contingent on the cooperation and willingness of the holders to provide the desired information. To seek the cooperation of the holders (respondents) promotional efforts have been made using the electronic and print media. Poems, dramas and other programs were presented on the country's TV, Radio and the Press. The CSA prepared, customized and distributed census materials such as brochures, fact sheets, posters, caps with census emblem, calendars and other items to relevant institutions and government officials. Moreover, CSA gave a number of press releases to foster public support and cooperation. Branch offices and supervisors worked with local officials and adhoc committees to obtain written and verbal support of the census in their speeches and public appearances.

3.5.1 Concepts and Definitions

Information on all items of agriculture is not useful until the items are distinctly defined and understood. The procedure of stating data items and related terms is a prerequisite for making standards and definitions for collection and compilation of agricultural data. The intent of using standard concepts and definitions is not only to provide quality data but also to ensure that the right items are enumerated and measured accurately to reflect the agricultural situation.

Standard concepts and definitions used in a census setup provide clear linkages between various tables of the census and previous surveys and maintain consistent enumeration and measurement of variables of interest. To this end, the CSA has put a lot of efforts into communicating concepts and definitions to the census field staff through training and instruction manuals. The concepts and definitions used in the census were made to conform to the FAO standard with a slight adaptation of a few of them to suit the agricultural situation in Ethiopia. The concepts and definitions used in the census included the following: -

Enumeration Area (EA): 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 without 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 has primary technical and economic responsibility for the holding. He 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 without the help of others, operates land and/or raises livestock in his own right, i.e. the person who decides on which, where, when, and how to grow crops or raise livestock or both and has the right to determine the utilization of the products.

Parcel: a parcel of holding is any piece of land entirely surrounded by land and/or water and/or road and/or forest, . . .etc which is not part of the holding.

It may consist of one or more cadastral units, plots or fields adjacent to each other.

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

Crop: includes cereals, pulses, oilseeds, vegetables, root crops, fruits, coffee, enset, chat, hops, sugar cane, cotton, tobacco, . . . etc produced for food, making drinks, stimulation and making fabrics or clothings.

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

Temporary Crops: 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 temporary crops since each is harvested and destroyed by ploughing in preparation for each successive crop.

Meher (main) Season Crop: any crop harvested between Meskerem (September) and Yekatit (February) is considered as Meher season crop.

4. Data Processing

4.1 Editing, Coding and Verification

In the 2001/2002 Ethiopian Agriculture Sample Enumeration (EASE), the filled-in forms that have been retrieved from 47 Branch Statistical Offices were primarily received and systematically registered at the documentation unit of the CSA head quarters in Addis Ababa. Before launching the actual editing coding activities, the Natural Resources and Agricultural Statistics Department staff gave adequate training to the 157 editors and coders. These editors and coders carried out the manual editing, coding and verification operations in two shifts.

At the outset, the editing and coding activities for the filled-in forms on area and agricultural practices^{*} took place, this was followed up by the editing and coding of the forms on the production of temporary crop (Cereals, Pulses, Oil Seeds, Vegetables and Root Crops) region by region. For the filled-in forms on area and agricultural practices, verification have been carried out on 100 %basis for the first five weeks from the launching of this activity and then considering the quality performance of editors-coders the activity was dropped only to 66% of the forms. On the other hand, the verification was carried out on 100 % basis for the filled-in forms on production of the temporary crops. The editing, coding and verification of the filled-in forms on area and agricultural practices took about 18 weeks while that of the filled-in forms on the production of temporary crops took around 10 weeks.

4.2 Data Entry, Cleaning and Tabulation

About 144 data encoders are assigned to undertake the data entry activity of 2001/02 EASE and it is being carried out on two shift basis. Before the starting of the data entry operation data encoders were trained for about 5 days using computer programs by the Data Processing Department staff. Computer programmers also prepared the entry programs used in capturing the data. CENTRY, a data entry module of IMPS (Integrated Micro Processing System) was used to develop a data entry format.

The data entry exercise is being carried out using 76 personal computers (PC's). Like that of the manual editing and coding activity, the filled-in forms on area and agricultural practices were entered first and this was followed by entry of the filled-in forms on the production of temporary crops.

* The data on the filled-in forms on agricultural practices have been edited, coded, verified and entered in to the computer along with data on area, however, the resulting data on agricultural practices will be published in the final report.

In order to ensure the quality of the data entry work, verification exercise was carried out. The entry of the filled-in forms on area and agricultural practices were verified on 100 % basis. Then the verification exercise was dropped to 66% from the 6th week of the launching of the operation and was further reduced to 50 % from the 10th week onwards by observing and assessing the magnitude of the percentage of errors. The verification process was carried out on 100 % basis for the filled-in forms on the production of temporary crops. This verification was carried-out through the process of re-entering the data. The whole data entry process for these particular forms took about 27 weeks.

Data entered into the computer needs to be checked for completeness, consistency and validity. For this purpose an edit program was prepared using CONCOR, an edit program part of IMPS. Using print-outs from this program and referring to these print-outs and if it is found necessary by referring to the filled-in census forms, corrections have been made by nine trained manual data cleaning technicians. Moreover, nine data-cleaning computer operators were involved to make the actual correction of the data in the computer.

An intermediate set of instructions or programs were made available and applied on the data to prepare the information suitable for tabulation. These programs were made using CSpro and IMPS softwares.

The data that are made ready for tabulation through the process of cleaning and intermediate programs was finally used to generate the required tables. This was done using computer programs for tabulation developed by the senior programmers of the data processing department. The software CENTS was used in producing the EASE census tables. CENTS is the tabulation program component of IMPS.

CHAPTER III

Preliminary Results of the Census on Area, Production and Yield of Crops

1. Introduction

The Ethiopian Agriculture is typical of subsistence production. The low level of production is largely attributed to traditional farming and fragmented land holdings. Under this traditional sector, the agricultural operations are carried-out on private peasant holding and most of the produce is mainly for own household consumption. The climatic diversity, which the country is endowed with, and the multiple usages of crops have enabled the vast majority of agricultural holders to produce various cereals, pulses, oil crops, vegetables, root crops and perinneal crops. Despite the variations in the volume of production and the relative importance of the patterns of growth of these crops, it is largely similar across the country. This similarity is well observed and illustrated in the various statistical tables presented in this chapter.

There is a consensus that food security is one of the most important objectives to be attained by the agricultural system. On the other hand, there are fundamental changes sweeping across the agricultural system that are adversely affecting the food situation in Ethiopia. These changes have manifested themselves in recurrent droughts, land degradation, population growth and the ensuing scarcity and fragmentation of land, . . .etc. These situations have made the provision of adequate food to the needy people a challenge to the government.

In order to have a vibrant agriculture, which serves as a reliable source of food, and overcome the challenge of food supply, the government has to formulate

agricultural policies and programs. The formulation, implementation and evaluation of these programs require statistical data on agriculture, particularly reliable data on crop production since it is the principal item that the issue of food security revolves around.

In light of this, crop production data were collected in this census to provide a basis for formulating and executing timely food security measures and alert policy makers about the food situation in the country. The Central Statistical Authority (CSA), as a public source of statistics and funded by the government supplies crop production data as a basis for making policy decisions in order to reduce the risk of food crisis and permit timely and orderly planning of import/export of various types of crops.

As portrayed in the given tables in this chapter a wide range of crops are grown in the country. This includes various types of cereals, pulses, oilseeds, vegetables and root crops. But the volume of production varies considerably from crop to crop and region to region. This variation in volume of production may be attributed to the level of importance attached to the crops, prevalence of variations in climatic and soil conditions and difference in food habits across the country. For simplicity of presentation and reasons of similarity the crops have been categorized as cereals, pulses, oilseeds, vegetables and root crops in the tables and in the basic description of the data.

As has been indicated earlier that the census data for Temporary Crops have been collected at national, regional, zonal and wereda levels and the census results are provided at these levels. As shown in Summary Table III.1 the data at regional levels are presented from Tables 2-12. Moreover, the tables that indicate zonal level data are given sub-numbers. That is, the data for Zone "1" in Tigray Region is presented in Table 2.1 and this lasts to as many numbers as

there are zones in the region. Hence, if there are five zones in the region the last table number in the zone will be indicated as Table 2.5.

Summary Table III.1: Table Series to Help Guide Census Data Users Below National Levels

Level	TABLE SERIES		
	Regional	Zonal	Wereda
Tigray	2	2.1	2.1.1
Afar	3	3.1	3.1.1
Amhara	4	4.1	4.1.1
Oromia	5	5.1	5.1.1
Somali	6	6.1	6.1.1
Benshangul- Gumuz	7	7.1	7.1.1
SNNPR	8	8.1	8.1.1
Gambella	9	9.1	9.1.1
Harari	10	10.1	10.1.1
Addis Ababa Administration	11	11.1	11.1.1
Dire Dawa Administration	12	12.1	12.1.1

Then, with respect to the weredas, the first table number for the wereda in the first zone of Tigray Region is identified as Table 2.1.1. Thus, the sub-numbers will continue to as many numbers as there are weredas in the zone. That is, if there are seven weredas in the first zone, the table number for the last wereda will be Table 2.1.7. Further more, the identification and the table numbers at zonal and wereda levels for the other regions also follow this very same pattern. Finally, it is to be noted that in Chapter III, census data on temporary crops are presented at national, regional and zonal levels only. However, these data at wereda levels are given in Chapter IV of Part II of this preliminary report.

2. Area, Production And Yield Of Crops

The private peasant holders for various economic and dietary reasons produce a wide range of crops in Ethiopia. A look at the census data on each type of crop

may be time consuming and devoid of clarity and simplicity and may not convey the desired information concisely and instantly. Hence, an alternative presentation of the data as a summary table on groups of crops based on the reasons for categorization of all temporary crops which is given above is pertinent.

An instant view of Summary Table III.2 gives a picture of the area that was under cereals, pulses, oilseeds, vegetables and root crops and the volume of production obtained from these crops. As indicated in the table, the types of temporary crops covered by the census have been categorized into five groups. The data in the table demonstrated that most of the crop areas in the country (about 80%) was under cereals. Pulses took up about 13%, oilseeds about 5%, vegetables and root crops about 1% each of the country's total temporary crop land areas. Moreover, the data in the table shows that the volume of production of each group of crops gives similar picture as that of the area. Accordingly, about 77% of the total volume of production in the country is drawn from cereals, 10% from root crops and 9% from pulses and the remaining 4% from oilseeds and vegetables combined.

2.1 Cereals

In the Ethiopian agricultural systems, cereals are the most extensively grown crops in terms of the magnitude of the area under crops and volume of crop production. Accordingly, as presented in Table 1, about 80% of the country's crop area and 77% of the crop production are contributed by cereals. In the cereals category Teff, maize, sorghum, wheat and barley are the main food crops in the country as underpinned by the data in the tables. Other types of cereals are also grown in the country eventhough the area/coverage and production of these crops are of limited scale.

Summary Table III.2: Area, Production and Yield of Temporary Crops, for Private Peasant Holdings, 2001/02 (1994 E.C.)

Crop	Total			
	Area ('000 Ha.)		Production ('000 Qt.)	
	Number	Percent	Number	Percent
Cereals	6,370.11	79.64	87,068.28	76.64
Pulses	1,016.79	12.71	10,212.15	8.99
Oilseeds	426.13	5.33	2,081.36	1.83
Vegetables	74.99	0.94	2,886.10	2.54
Root crops	110.63	1.38	11,361.37	10.00
Total	7,998.64	100.00	113,609.26	100.00

As the census data reveals that about 23% of the country's land under crops was planted to Teff and 14% of the crop production was attributed to this crop with an average yield of about nine quintals per hectare. Also the results show that maize was grown on 17% of the cropland and contributing about one quarter of the cereal crop production with an average yield of 21 quintals per hectare, which is the highest yield of all cereal crops in the country.

Moreover, 14% of the crop area was under sorghum which is the third principal crop in the country and 14% of the crop production was drawn from this crop with a recorded average yield of about 14 quintals per hectare. Further, about 13% of the country's area under crop was covered by wheat making up about 13% of the total crop production with an average yield of 14 quintals per hectare. Barley was also an important cereal crop taking up about 10% of the country's crop area and constituting about 8% of the total production with a reported yield of 12 quintals per hectare.

All crops in the cereal category are planted in all the regions and cereals are indisputably the dominant among the temporary crop categories in each region both in terms of area planted and volume of production obtained.

In Tigray Region, cereal crops accounted for about 86% of the total regional crop area and about 89% of the crop production (see Table 2). Teff and sorghum were the principal crops in terms of both crop area and volume of crop production that accounted for about 23% and 21% of the regional cropland and about 16% and 30% of the crop production, in that order. These crops resulted in an average yield of about eight and 17 quintals per hectare, in that order. This was followed by maize and wheat that are also important cereal crops in the region in terms of production and yield as shown in the table. The regional contribution of these cereal crops to the country in terms of area and production is summed up at about seven percent each (see Summary Table III.3).

In Amhara Region, cereals contributed about 76% and 77% to the area and production of temporary crops to the regional total, respectively (see Table 4). The data reveals that Teff, sorghum and maize were the major crops in the region in terms of both the area covered and the production yielded by these crops. That is, the data indicated that about 27%, 14% and 10% of the regional crop area were under Teff, sorghum and maize, in that order. On this basis, about 20%, 18% and 15% of the production of crops in the region were drawn from Teff, maize and sorghum, respectively. The average yields reported for these crops were about 9, 13 and 22 quintals per hectare for Teff, sorghum and maize, respectively. It can be observed from Table 4 that other crops such as wheat, barely and finger millet are also grown in large quantities in the region. The regional contribution to the country's total in area and production of cereals is 35% and 31%, respectively (see Summary Table III.3).

Summary Table III.3: Area, Production and Yield of Cereals for Private Peasant Holdings by Region, 2001/02 (1994 E.C.)

Region	CEREALS			
	Area ('000 Ha.)		Production ('000 Qt.)	
	Number	Percent	Number	Percent
Tigray	462.53	7.26	5,769.78	6.63
Afar	8.29	0.13	75.24	0.09
Amhara	2,216.03	34.79	27,144.18	31.18
Oromia	2,911.62	45.71	44,260.46	50.83
Somali	57.04	0.90	714.36	0.82
Benishngul-Gumuz	103.94	1.63	1,390.29	1.60
S.N.N.P.R	575.66	9.04	7,273.19	8.35
Gambella	7.88	0.12	144.05	0.16
Harari	4.62	0.07	43.86	0.05
Addis Ababa Administration	16.08	0.25	163.77	0.19
Dire Dawa Administration	6.43	0.10	89.10	0.10
Total	6,370.12	100.00	87,068.28	100.00

In Oromia Region, cereals made up about 82% of each the regional crop area and the crop production (see Table 5). As can be observed from the table Teff, maize and wheat are the major crops grown in terms of both area planted and volume of crop production. That is, about 22% of the regional crop area was under Teff, 21% under maize and 16% under wheat and this resulted in about 13%, 31% and 16% of the regional crop production with recorded average yields of about 9, 23 and 16 quintals per hectare, respectively. Other crops like barley and sorghum were also produced in large volume in the region. The regional contribution to the country's total in terms of area and production of cereals is about 46% and 51%, respectively (see Summary Table III.3).

In Benishangul-Gumuz Region about 76% of the regional crop area was under cereals. These crops contributed about 86% of the production to the regional

total (see Table 7). As can be observed in the table sorghum, maize and Finger millet are the main food crops in the region taking up about 38%, 15% and 13% of the area under crop, respectively. Thus, about 41%, 25% and 12% of the crop production in the region was attributed to these crops with average yields of about 13, 20 and 12 quintals per hectare, in that order. The regional contribution to the country's crop area and production was about 2% each (see Summary Table III.3).

In Southern Nations, Nationalities and Peoples Region (SNNPR), about 75% of the regional crop area was under cereals and 50% of the production was composed of these crops (see Table 8). According to the data in the table, maize, teff and wheat were the crops that were grown in large quantities in terms of both the area covered and production obtained. That is, about 25% of the regional crop area was under maize, 18% under Teff and 12% under wheat. The proportion of the regional production acquired from these cereal crops was about 23%, 7% and 9%, respectively. The average yields recorded for these cereal crops were about 17, 7 and 15 quintals per hectare for maize, Teff and wheat, in that order. Other crops such as sorghum and barley were also grown in considerable quantity. The regional contribution to the country's total in crop area and production is about 9% and 8%, respectively (see Summary Table III.3).

In Afar Region, about 94% of the total crop area was under cereals and 64% of the production was composed of these crops (see Table 3). According to the data in the table, maize and sorghum are the principal crops that were grown both in terms of area planted and volume of production obtained. Thus, about 69% of the regional crop area was under maize and 16% under sorghum and about 52% and 9% of the crop production were drawn from these crops, in that order. The average yields recorded for both maize and sorghum were about 10

and 8 quintals per hectare, respectively. The regional contribution to the country's total in crop area and production which is 0.13% and 0.09%, respectively is negligible (see Summary Table III.3).

In Somali Region, about 96% of the total crop area was under cereals and 87% of the volume of production was made up of these crops (see Table 6). The data on this table reveals that maize, sorghum and wheat were the major food crops grown both in area planted and volume of production obtained. Thus, about 35%, 35% and 14% of the crop area in the region were under maize, sorghum and wheat and about 32%, 34% and 13% of the production was contributed by these crops, in that order. The average yields recorded for these crops were about 13 quintals per hectare each for maize, sorghum and wheat. The regional contribution to the country's total area under crop and crop production is negligible amounting to about one percent each (see Summary Table III.3).

In Gambella Region, about 90% of the total crop area was under cereals and 81% of the production was drawn from these crops (see Table 9). The data in the table indicates that maize and sorghum are the main food crops grown in the region both in terms of area planted and volume of production obtained. Accordingly, about 59% and about 31% of the regional crop area were under these crops and about 62% and 19% of the production were drawn from these crops, in that order. The average yields recorded were about 22 quintals per hectare for maize and 12 quintals per hectare for sorghum. The regional contribution in terms of area under cereal crop and volume of production to the country's total area under crop and production is negligible (see Summary Table III.3).

In Harari Region, about 77% of the crop area was under cereals and 69% of the regional production was contributed by these crops (see Table 10). The data in

this table reveals that sorghum and maize are the major food crops grown in the region both in terms of planted area and volume of production. Thus, about 64% and 11% of the regional crop area were under sorghum and maize, respectively contributing about 55% and 13% of the volume of production, in that order. The average yields recorded were about 9 and 12 quintals per hectare for sorghum and maize, respectively. The regional contribution to the country's total crop area and volume of production are also negligible (see Summary Table III.3).

In Addis Ababa Administration, about 76% of the crop area was under cereals and 72% of the production was drawn from these crops (see Table 11). The data in this table shows that Teff and wheat are the main food crops grown in the administration both in area planted and volume of production. That is, about 38% and 37% of the crop area were under Teff and wheat, respectively. Moreover, the data shows that about 31% and 40% of the production were drawn from these crops, in that order. The average yields recorded were about 9 quintals per hectare for Teff and about 12 quintals per hectare for wheat. The regional contribution to the country's total area under crop and volume of production are negligible (see Summary Table III.3).

In Dire Dawa Administration, about 95% of the crop area was under cereals and about 85% of the production was contributed by these crops (see Table 12). The data in this table shows that sorghum and maize are the main food crops grown in the administration both in terms of area planted and volume of production obtained. Accordingly, about 91% and 4% of the crop area were planted to sorghum and maize, respectively, and about 82% and 3% of the production were contributed by these crops with an average yield of about 14 and 13 quintals per hectare, in that order. The regional contribution to the country's

total area under crop, and crop production is also negligible (see Summary Table III.3).

2.2 Pulses

In addition to the main food crops, Ethiopian peasant households or holders also grow leguminous crops like horse beans, haricot beans, field peas, chick-peas, ... etc. for different purposes. For similar reasons as in cereals, these crops have been also categorized as pulses in the tables and in the basic description of the data. Pulses are not as widely grown as cereals in the country in terms of both area planted and volume of production achieved. This is substantiated by the data that presents the census results. The contribution of these crops in terms of area under pulses and production of crops to the country's total is about 13% and 9%, respectively (see Table 1).

In the pulses category horse beans, chick peas and field peas were the major leguminous crops produced accounting for about 5%, 2% and 2% of the country's crop area and 4%, 2% and 1% of total crop production with average yields of about 12, 10, and 8 quintals per hectare, in that order. Other pulses such as haricot beans, vetch, lentils, ...etc. are also grown in the country, eventhough the area covered and volume of production are not significant (see Table 1).

A look at the regional tables on pulses demonstrate that similar pictures are depicted as that of the table at country level. The total area covered under pulses and the volume of production are much smaller than that of cereals. The types of pulses grown are similar across the regions despite some variations in terms of area planted and volume of crop production. These variations may be the result of the level of importance attached to the pulses by the peasant households or holders in the various regions.

In Tigray Region, pulses added about 8% of the crop area and 7% of the production to the regional total (see Table 2). The data in this table shows that horse beans, chick peas and vetch were the major pulses in terms of both area planted and production obtained. Thus, about 3%, 2% and 1% of the regional crop area and 3%, 2% and about 1% of the production were contributed by these crops with average yields of 13, 9 and about 9 quintals per hectare, respectively. Other pulses like field peas and lentils were also grown in the region. The regional contribution to the country's total area under pulses and production of pulses is 4% each (see Summary Table III.4).

In Amhara Region, pulses contributed about 17% of the crop area and 14% of the production to the regional total (see Table 4). The table shows that horse beans, chick peas and field peas were the major pulses produced in the region in terms of area under crops and volume of crop production. Thus, about 6%, 4% and 3% of the regional crop area and about 6%, 3% and 2% of the production were constituted by these pulses with average yields of 12, 10 and 8 quintals per hectare, in that order. Other pulses such as lentils, vetch, ...etc. are also grown in the region but the area and volume of production of these crops are relatively small. The regional contribution to the country's total area under pulses and production of pulses was about 48% each (see Summary Table III.4).

In Oromia Region, pulses formed about 10% of the regional crop area and about 7% of the production (see Table 5). The data in the table reveals that horse beans, field peas, haricot beans and chick peas were the major pulses produced in the region in terms of both area planted and volume of production. Thus, about 4% of the regional crop area was under horse beans and 2% each under field peas, haricot beans and chick peas. About 3% of the regional crop production was drawn from horse beans and about 1% from each field peas,

haricot beans and chick peas with recorded average yields of about 12, 9, 9 and 11 quintals per hectare, in that order. Other pulses like lentils and vetch were also grown despite the low level of area planted and volume of production attained. The regional contribution of these crops to the country's total area under pulses and volume of production are about 36% and 37%, respectively (see Summary Table III.4).

In SNNPR, pulses took up 14% of the regional crop area and about 7% of the production (see Table 8). The data in the table show that horse beans, field peas and haricot beans were the major pulses produced in terms of production and area planted. Thus, about 6% of the regional crop area was under horse beans and about 4% under each field peas and haricot beans. Also about 3% of the regional production was made up of horse beans and about 2% of each field peas and haricot beans with average yields of about 10 quintals per hectare for horse beans and 8 quintals per hectare for each field peas and haricot beans. Other pulses such as chick-peas and lentils were also grown despite the low level of area planted and volume of production. The regional contribution of pulses in terms of area planted and volume of production to the country's total is 11% and 9%, respectively (see Summary Table III.4).

In Afar Region, pulses were also produced in a limited scale compared to cereals. Thus, pulses covered 1% of the regional crop area and contributed small quantity to the crop production (see Table 3). Based on the data from the table chick-peas and haricot beans were produced in relatively larger quantities than the other pulses in terms of both area planted and production obtained with average yields of about 2 and 4 quintals per hectare, in that order.

In Somali Region, pulses covered 2% of the crop area and contributed about 1% to the volume of production (see Table 6). The table shows that haricot

beans and chick-peas were produced in relatively large quantities than other pulses in terms of both area planted and volume of production with average yields of about 3 and 6 quintals per hectare, respectively.

Summary Table III.4: Area, Production and Yield of Pluses for Private Peasant Holdings by Region, 2001/02 (1994 E.C.)

Region	P U L S E S			
	Area ('000 Ha.)		Production ('000 Qt.)	
	Number	Percent	Number	Percent
Tigray	42.71	4.20	432.96	4.25
Afar	0.10	0.01	0.29	0.00
Amhara	488.18	48.07	4,920.23	48.23
Oromia	363.96	35.84	3,780.68	37.07
Somali	1.35	0.13	6.28	0.06
Benishngul-Gumuz	6.68	0.55	60.44	0.47
S.N.N.P.R	108.56	10.69	964.61	9.46
Gambella	0.12	0.01	0.71	0.01
Harari	0.03	0.00	0.13	0.00
Addis Ababa Administration	4.89	0.48	43.68	0.43
Dire Dawa Administration	0.20	0.02	2.14	0.02
Total	1,015.11	100.00	10,196.30	100.00

In Benishangul-Gumuz Region, pulses covered 5% of the regional crop area and contributed about 4% of the production (see Table 7). The data in the table indicate, that haricot beans was produced in relatively large quantity than other pulses both in terms of area planted and production obtained. Thus, about 3% of the regional crop area was under haricot beans and 2% of the production was attributed to this crop with an average yield of about 9 quintals per hectare.

In Gambella Region, pulses took up 1% of the crop area and formed less than 1% of the production (see Table 9). The data indicate that haricot beans was produced in relatively large quantity than other pulses in the region both in

terms of area planted and production obtained. It covered about 1% of the crop area and less than 1% of the production with an average yield of about 6 quintals per hectare.

In Harari Region, a small proportion of the crop area was also under pulses and small quantities of production were obtained (see Table 10). The data in the table shows that haricot beans was produced in relatively large quantity than other pulses. This was followed by field peas and chick peas in terms of production obtained.

In Addis Ababa Administration, pulses covered 23% of the crop area and 19% of the production (see Table 11). The data in the table reveals that chick-peas, vetch and lentils were produced in greater quantities and covered about 12%, 6% and 3% of the crop area and about 11%, 5% and 1% of the production with recorded yields of about 10, 10 and 6 quintals per hectare, respectively.

In Dire Dawa Administration, pulses accounted for 3% of the crop area and 2% of the production (see Table 12). The data in the table indicate that haricot beans was the only main pulse produced in the administration both in terms of area planted and production obtained with an average yield of about 11 quintals per hectare.

2.3 Oilseeds

These are important cash crops playing a vital role in the making of food ingredients. On the account of importance attached to these crops various oilseeds are produced across the country but in different volumes. The area under oilseeds and the amounts of oilseeds production obtained from these crops vary from crop to crop within the oilseeds category. The census data indicates that about 5% of the country's crop area was under oilseeds and the

proportion of production drawn from these crops was about 2%, which was the smallest contribution in production to the country's total (see Table 1).

The data in the table further shows that among the oilseeds Neug, linseed and sesame were the major crops produced in the country in terms of area planted and production obtained. Thus, about 3% of the country's crop area was under Neug and 1% under each linseed and sesame. These crops together formed about 2% of the country's total production with average reported yields of about 4, 5 and 7 quintals per hectare for Neug, linseed and sesame, respectively. Other oil crops like rapeseed and groundnuts were also produced despite the small area planted and volume of crop production obtained.

A view of the regional tables on oilseeds portrays a similar situation as that of the country. The area planted and production of oil crops were much smaller than that of cereals and pulses. The types of oil crops produced are similar across the regions despite some variations in the area planted and production obtained. These variations may be attributed to the level of importance attached to the crops by the holders and the variations in the climatic conditions of the regions.

In Tigray Region, oilseeds constituted about 6% of the regional crop area and 3% of the production (See Table 2). The data shows that sesame, Neug and linseed were the major oil crops accounting for about 4%, 1% and 1% of the regional crop area, respectively. Their combined contribution in crop production to the regional total was about 3% with average yields of 6, 5 and about 4 quintals per hectare for sesame, Neug and linseed, in that order. The regional contribution in area planted and production acquired to the country's total oilseeds was about 7% and 8% respectively (see Summary Table III.5).

In Amhara Region, oilseeds contributed 6% of the regional crop area and 2% of the production (see Table 4). The data in the table indicates that Neug, linseed, sesame and rapeseed were the major oil crops produced both in terms of area planted and volume of production achieved. Thus, about 4% of the regional crop area was under Neug and about 2% was under linseed, sesame and rapeseed combined. The production of Neug constituted about 1% and linseed, sesame and rapeseed combined about 1% of the total regional crop production. The average yields reported for Neug, linseed, sesame and rapeseed were about 4, 4, 7 and about 14 quintals per hectare, respectively. Other oilseeds like groundnuts, sunflower, ...etc. were also grown. The regional contribution both in terms of area under oilseeds and production to the country's total oilseeds was 41% and 41%, respectively (See Summary Table III.5).

In Oromia Region, oilseeds contributed about 5% of the crop area and 2% of the production to the regional total (see Table 5). The table shows that Neug, linseed, groundnuts and sesame were the main oil crops in terms of both area planted and production attained. Thus, about 3% and 2% of the regional crop area was under Neug and linseed, respectively. The four oil crops combined together accounted for 5% of the production of the total crop in the region with average yields of about 3, 6, 8 and 7 quintals per hectare, in that order. Other oil crops such as sunflower, rapeseed, ...etc. were also grown. The regional contribution in terms of area planted and volume of crop production to the country's total oilseeds is 44% each (see Summary Table III.5).

In Benishangul-Gumuz Region, oilseeds covered about 18% of the regional crop area and 7% of the production (see Table 7). The census results show that Neug, groundnuts and sesame were the principal oil crops grown in the region in terms of area planted and production obtained. Accordingly, about 10%, 2%

and 7% of the regional crop area were under Neug, groundnuts and sesame, in that order. Also, about 2%, 1% and 4% of the regional crop production was attributed to these crops with average yields of about 3, 10 and 6 quintals per hectare, respectively. Other oil crops such as linseed and rapeseed were also produced in the region. The regional contribution in terms of area planted and volume of crop production to the country's total oilseeds are 6% each (see Summary Table III.5).

Summary Table III.5: Area, Production and Yield of Oilseeds for Private Peasant Holdings by Region, 2001/02 (1994 E.C.)

Region	OILSEEDS			
	Area ('000 Ha.)		Production ('000 Qt.)	
	Number	Percent	Number	Percent
Tigray	30.63	7.19	175.45	8.43
Afar	0.14	0.03	0.75	0.04
Amhara	176.21	41.36	849.38	40.81
Oromia	188.39	44.21	908.39	43.65
Somali	0.49	0.12	2.37	0.11
Benishngul-Gumuz	25.24	5.92	120.39	5.78
S.N.N.P.R	3.37	0.79	11.31	0.54
Gambella	0.34	0.08	0.99	0.05
Harari	1.25	0.29	12.07	0.58
Addis Ababa Administration	0.01	0.00	0.02	0.00
Dire Dawa Administration	0.03	0.01	0.22	0.01
Total	426.10	100.00	2,081.34	100.00

In Afar Region, oilseeds were also produced even though their quantities were insignificant compared to the other crops in the region (see Table 7). The data show that about 2% of the crop area was covered by oilseeds in the region. Sesame was grown in relatively large quantity compared to the other oil crops covering about 1% of the regional crop area with a recorded yield of about 6 quintals per hectare.

In Somali Region, the area covered and production contributed by oilseeds were insignificant (see Table 6). The data show that among the oilseeds produced in the region, linseed took up a relatively higher portion of the area planted and production obtained with an average yield of three quintals per hectare.

In SNNPR, oilseeds were planted in a limited magnitude in terms of land and produced only in relatively small quantities. Despite the small volume of production, all types of oil crops were grown in the region. Thus, Neug, linseed, groundnuts and rapeseed were planted in relatively more hectares of land than the other oilseeds (see Table 8).

As can be observed from Table 9 in Gambella Region, oilseeds covered about 4% of the crop area and about 1% of the total crop production. Sesame was planted in a relatively larger area and produced in greater volume in the region with a recorded yield of about three quintals per hectare.

In Harari Region, oilseeds took up about 21% of the crop area and contributed 19% of the production (see Table 10). The data shows that groundnuts was the major oil crop grown in the region covering 21% of the crop area and 19% of the production with an average yield of about 10 quintals per hectare.

In Addis Ababa Administration, oilseeds were planted in very limited crop land area and produced relatively in much smaller volume (see Table 11). The table indicates that linseed was produced in relatively large quantity than the other oil crops in the administration with a recorded average yield of about two quintals per hectare.

In Dire Dawa Administration, also oilseeds were planted in a limited land area and the volume of production obtained was also very small (see Table 12). The table shows that groundnuts and sesame were the only oil crops produced in the

administration with average yields of eight and about three quintals per hectare, respectively.

2.4 Vegetables and Root Crops

Vegetables and root crops are rich in vitamins, carbohydrates and other nutrients, that contribute to a major portion to an Ethiopian daily dish mix. In some areas of the country, root crops particularly potatoes and sweet potatoes are used as staple food for considerable portion of the population. Root crops in general and sweet potatoes in particular are drought resistant and serve as security food crops in drought prone areas. Moreover, potatoes and sweet potatoes are root crops that can be stored for longer period of time compared to many other food crops. Furthermore, vegetables and root crops generate foreign currency earnings to the country.

Although vegetables and root crops play an important role in the total food crop supply and economic performance of the country, up till now much was not known about their contribution to the country's total agricultural output

Particularly in terms of area coverage as well as volume of production obtained.

It is only, from the results of the 2001/02 (1994 E.C) Ethiopian Agricultural Sample Enumeration (E.A.S.E) quantified estimates on the extent of area under root crop and volume of production obtained are made available for the first time. Here it should be noted that the 2001/02 (1994 E.C) E.A.S.E. covered only those vegetables and root crops commonly grown and consumed in Ethiopia. Therefore, the highlights of the census findings of these crops are briefly discussed as follows.

2.4.1 Vegetables

Vegetables are temporary crops which are rich in vitamins such as A, B, C,

K, ...etc. as well as carbohydrates and proteins. Due to these facts, it is common to find vegetables in an Ethiopian daily dish mix. However, when compared to cereals, pulses and oilseeds, vegetables are not widely grown in Ethiopia. This is well illustrated by the quantified estimates of area under vegetable crops and volume of production presented in Table 1. According to the census data, in Ethiopia, the area under vegetables and volume of production of vegetables constitute about 1% (0.07 million hectares) and about 3% (2.89 million quintals), respectively. Of these totals, considerable share both in terms of crop area and production is taken by red peppers with about 1% (0.054 million hectares) and 1% (0.77 million quintals), respectively and with an average yield of 14 quintals per hectare. Moreover, Ethiopian Cabbage, green peppers and tomatoes constitute about 0.2%, 0.1% and 0.02% of the total area under crop, and about 1%, 0.3% and 0.2% of the total volume of crop production, in that order. Nevertheless, the lowest contribution both in terms of area under crop and volume of production are reported for head cabbage and swiss chard, in that order.

Similarly, a look at the regional tables indicates that similar picture is demonstrated as that of the results at national level. Of course, one can easily observe variations in cultivated area and quantity of production obtained across regional tables. Quite a number of reasons such as preference of holders, cultural habits as well as climatic and soil conditions, . . . etc could contribute to the observed variations.

For instance, in Tigray Region, out of the regional total area under and volume of production, the contribution of vegetables was only 0.18% and 0.61%, respectively (see Table 2). According to the data in the table, the highest share both in crop area and production was reported for red pepper with 0.12% and 0.10% from the regional total crop area and production, respectively, followed

by green pepper, and tomatoes. The regional contribution to the country's total area under vegetables and production of vegetables is about 1% each (see Summary Table III.6).

In Amhara Region, vegetables contribute about 0.6% and 1% to the regional total crop area and production, in that order (see Table 4). The data in the table shows that red and green peppers as well as tomatoes are reported as the major vegetables grown in the region. The census results indicate that about 0.55%, 0.02% and 0.01% of the regional total crop area, and about 0.55%, 0.18% and 0.12% of the total crop production are contributed by these vegetables. Vegetables like lettuce, head cabbage, Ethiopian Cabbage and swiss chard are also grown in the region. The regional contribution to the country's total area under vegetable and vegetable production amounts to about 23% and 12%, respectively (see Summary Table III.6).

In Oromia Region, about 1% and 2% of the regional total area under crop and production are the share of vegetable crops, respectively (see Table 5). The data shows that red pepper, green pepper and Ethiopian cabbage are the major vegetables grown in Oromia Region in terms of both area under crop and volume of production obtained, which is about 0.6%, 0.06% and 0.15% of the regional total crop area, as well as about 0.5%, 0.4% and 0.95% of the regional total production, in that order. However, the share of lettuce, tomatoes and head cabbage both in terms of area under crop and volume of production are found to be not significant. The regional contribution to the country's total area under vegetables and total production constituted about 40% and 43%, respectively (see Summary Table III.6).

Vegetable crops in S.N.N.P.R, contributed about 3% and 8% of the regional total area under crop and production, respectively (see Table 8). Moreover, the

Summary Table III.6: Area, Production and Yield of Vegetables for Private Peasant Holdings by Region, 2001/02 (1994 E.C.)

Region	VEGETABLES			
	Area ('000 Ha.)		Production ('000 Qt.)	
	Number	Percent	Number	Percent
Tigray	0.96	1.28	39.96	1.38
Afar	0.06	0.08	8.70	0.30
Amhara	17.28	23.05	338.91	11.74
Oromia	29.73	39.65	1,226.60	42.50
Somali	0.09	0.12	11.01	0.38
Benishngul-Gumuz	0.88	1.17	21.65	0.75
S.N.N.P.R	25.87	34.50	1,228.78	42.58
Gambella	0.06	0.08	4.25	0.14
Harari	0.00	0.00	0.02	0.00
Addis Ababa Administration	0.02	0.03	1.81	0.06
Dire Dawa Administration	0.03	0.04	4.40	0.15
Total	74.98	100.00	2,886.09	100.00

results show that red pepper, Ethiopian Cabbage and green pepper are the major vegetables grown in the region, contributing to about 2%, 1% and 0.1% of the regional total crop area and with about 2%, 6% and 0.4% of the regional total volume of crop production, respectively. Area under vegetables and production of vegetables in the region contributed to 35% and 43%, respectively compared to the total area and production of vegetable crops in the country (see Summary Table III .6).

In Afar, Somali, Benishangul-Gumuz, Gambella, and Harari Regions and in Addis Ababa and Dire Dawa Administrations, vegetable crops were also grown (see Tables 3, 6 ,7 and 9-12). However, the area planted and the volumes of production obtained were found to be insignificant when compared

other regional estimates on vegetable crops both in terms of area under crop and volume of production obtained. Thus, in Afar, Somali, Benshangul-Gumuz, Gambella, and Harari Regions and in Addis Ababa and Dire Dawa Administrations, vegetable crops constituted about 0.7%, 0.2%, 0.7%, 0.6%, 0.01%, 0.01% and 0.4% to the regional total area under crop and about 8%, 1%, 1%, 2%, 0.03%, 0.8% and 4% to the regional total volume of crop production, in that order.

2.4.2 Root Crops

Root Crops are fleshy and rich in starch and varying amount of other nutrients. These crops^{*} are also important security food crops for the people living in drought prone areas of the country. However, like that of vegetables, root crops are not grown widely in the country. As the census results indicate, the estimates of total area under root crops is 0.11 million hectares (1.38% of the total area under crop) and an estimated production of 11.36 million quintals (10.00%) (see Table 1). The data in the table shows that potatoes, sweet potatoes, taro/Godere (casva like root crop) and onion are the major root crops grown both in terms of crop area coverage and volume of crop production obtained. The census results indicate that area under each of these root crops are estimated to be about 0.5%, 0.4%, 0.3% and 0.1% of the total area under crop, whereas the volume of productions obtained are about 3%, 3%, 2% and 1% of the total volume of production with average yields of 104.87, 99.67, 79.93 and 133.92 quintals per hectare, in that order. On the other hand, root crops such as carrot, garlic and beetroot altogether contributed to about 0.1% and 0.7% of the crop area and volume of production, respectively.

* Enset is the most important root crop in Ethiopia, however, enset being a permanent (perennial) root crop, it is not included in this section which deals only with temporary root crops.

Since the estimates of the total area coverage and volume of production of root crops at country level are the sum of the regional estimates, relatively, similar picture is demonstrated over the regional estimates both in terms of area coverage and volume of production obtained.

In Tigray Region, root crops contributed about 0.14% of the area under crop and 1.42% of the volume of crop production to the regional totals, in that order (see Table 2). Furthermore, the estimated area under onion and potatoes accounted for about 0.1% each to the regional total area under crop. The volume of production of these crops accounted for about 0.6% and 0.4% to the regional total volume of crop production, with average yields of 134 and 105 quintals per hectare, respectively. On the other hand, the remaining root crops such as beetroot, carrot and garlic altogether contributed to about 0.04% of the total regional crop area and 0.44% of the total regional volume of crop production obtained. The total area under root crops and production in the region constituted about 0.7% and 0.8% to the country's total area and production of root crops (see Summary Table III.7).

In Amhara Region, root crops covered about 0.6% of the regional total area under crop and 5% of the production (see Table 4). The major root crops grown in the region includes potatoes, onion and garlic and about 0.4% 0.08% and 0.08% of the regional total area under crop as well as about 3%, 0.8% and 0.9% of the regional total volume of production are contributed by each of these root crops, in that order. Root Crops such as beetroot, carrot and sweet potatoes altogether contributed to about 0.01% of the total regional area under crop and 0.11 % of the regional total volume of crop production. The regional contribution to the country's total area under root crops and production of root crops are 14% and 16%, respectively (see Summary Table III.7).

Summary Table III.7: Area, Production and Yield of Root Crops for Private Peasant Holdings by Region, 2001/02 (1994 E.C.)

	ROOT CROPS			
	Area ('000 Ha.)		Production ('000 Qt.)	
	Number	Percent	Number	Percent
Tigray	0.74	0.67	92.46	0.81
Afar	0.24	0.22	31.78	0.28
Amhara	15.88	14.35	1,818.17	16.00
Oromia	38.97	35.23	4,161.92	36.65
Somali	0.70	0.63	87.88	0.77
Benishngul-				
Gumuz	0.40	0.36	40.13	0.35
S.N.N.P.R.	53.04	47.94	5,064.32	44.57
Gambella	0.33	0.30	28.77	0.25
Harari	0.09	0.08	7.51	0.07
Addis Ababa				
Administration	0.16	0.14	19.39	0.17
Dire Dawa				
Administration	0.09	0.08	9.03	0.08
Total	110.64	100.00	11,361.36	100.00

In Oromia Region, root crops constituted about 1.10 % and 7.66% of the regional area under crop and volume of production, respectively (see Table 5). Of course, potatoes, sweet potatoes and onion contributed about 0.4%, 0.3%, and 0.2% of total regional area under crop as well as about 3%, 2% and 2% of the regional total crop production with average yields of 105, 99 and 135 quintals per hectare, in that order. On the other hand, the contribution of root crops such as beetroot, carrot and garlic is relatively lower both in terms of crop area and volume of crop production when compared with these major root crops (potatoes, sweet potatoes and onions) grown in the region. The regional contribution to the country's total area under root crops and production of root crops amounted to about 35% and 37%, respectively (see Summary Table III.7).

In S.N.N.P.R, one can easily observe similarities with the types of root crops

grown with the aforementioned regions except variations in the extent of area coverage and quantity of production obtained. However, root crops that are grown in S.N.N.P.R covered about 6.92% of the regional total crop area and 34.83% of the total volume of crop production. Moreover, sweet potatoes, taro/Godere and potatoes are the major root crops grown in the region, in which each of these crops contributed 3.08%, 2.28% and 1.34% of the regional crop area and about 16.25%, 9.62% and 7.39% of the regional total volume of crop production, in that order. Other root crops such as beetroot, carrot and garlic were also grown in the region with relatively lower share both in terms of area planted and volume of production obtained contributing to about 0.06% and 0.41%, respectively. The regional contribution to the country's total area under root crops and production of root crops amounted to 48% and 45%, respectively (see Summary Table III.7).

In Afar, Somali, Benishangul-Gumuz, Gambella, and Harari Regions and in Addis Ababa and Dire Dawa Administrations root crops contributed about 3%, 1%, 0.3%, 4%, 2%, 1% and 1% to the regional total area under crop and about 27%, 11%, 3%, 16%, 12%, 9% and 9% to the regional total volume of production, respectively (see Tables 3, 6, 7 and 9-12).

In general sweet potatoes, onions and potatoes are the major and commonly grown root crops in these regions covering an estimated crop area ranging from 247.79 hectares to 0.05 hectares and an estimated volume of production ranging from 24,576.30 quintals to 2.50 quintals. As it can be seen from the tables presented at country and regional levels, vegetables and root crops were grown in almost all parts of the country with some variations in the type grown, area planted and volume of crop production obtained which is mainly attributed to quite a number of factors peculiar to the respective regions.

Therefore, it is important to make comparisons of estimates among regions in terms of area coverage and volume of production obtained so as to identify those regions favoring the production of vegetables and root crops.

In the year 2001/02 (1994 E.C) main crop production season (Meher season), the largest area under vegetables 0.03 million hectares (39.65% of the country's total area under vegetables) and 1.23 million quintals (42.50% of the total volume of production of vegetables at country level) was reported by Oromia Region. The second and third are S.N.N.P.R and Amhara Regions with area coverage of 0.026 and 0.017 million hectares (34.50% and 23.05% of the total area under vegetables) and with about 1.23 million quintals (42.58%) and 0.34 million quintals (11.47%), respectively.

On the other hand, the highest area under root crops was reported by S.N.N.P.R with an estimated area of 0.053 million hectares (48%) and with about 5.06 million quintals (44.57%), followed by Oromia and Amhara Regions with an estimated area of 0.04 million hectares (35.23%) and 0.015 million hectares (14.37%) and estimated total production of 4.16 million quintals (36.63%) and 1.81 million quintals (16.00%), in that order.

3. Measures of Precision of Estimates

These are measures that indicate the variable error that may be expected in the estimates derived from the sample. The common measures are variances, standard errors and coefficients of variation (CV). Out of these measures, the results of standard errors and coefficients of variation are reported in Appendix 2 Table 1 (country level) for each crop area and production estimates.

For comparing the variability of different crop estimates or of the same crop estimates in different reporting domains, the coefficients of variation (the

standard deviation expressed as a percentage of the estimate), should be used since it is a unit-less measure. Coefficients of variation for all crops at country level ranges from 0.93% to 25.75% and 1.1% to 28.6% for area and production estimates, respectively. Thus, the CV's indicate a high reliability of crop area and production estimates.

In general, estimates with CV less than 30% are considered as reliable estimates (assuming no bias). Estimates between the ranges of 30% to 50% CV's are considered less reliable and users are advised to use them cautiously. This is due to the fact that the higher the CV the less reliable the estimate will be. Estimates with CV greater than 50% are suppressed or are not shown and instead these estimates are marked with asterisk (*), because, these estimates (with CV > 50%) are not reliable to be used for any purpose.

Table 1 Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Ethiopia

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	7,998,635.40	100.00	113,609,242.99	100.00	
Cereals.....	6,370,105.57	79.64	87,068,275.50	76.64	
Teff.....	1,818,374.64	22.73	16,273,155.32	14.32	8.95
Barley.....	771,514.77	9.65	9,319,063.02	8.20	12.08
Wheat.....	1,004,999.97	12.56	14,444,338.16	12.71	14.37
Maize.....	1,323,037.53	16.54	28,002,088.27	24.65	21.16
Sorghum.....	1,132,495.63	14.16	15,462,080.40	13.61	13.65
Finger millet..	281,455.23	3.52	3,061,837.86	2.70	10.88
Oats/'Aja'	29,862.96	.37	351,592.09	.31	11.77
Rice.....	8,364.84	.10	154,120.38	.14	18.42
Pulses.....	1,016,786.04	12.71	10,212,146.50	8.99	
Horse beans....	369,150.83	4.62	4,470,626.40	3.94	12.11
Field peas.....	175,221.80	2.19	1,472,697.30	1.30	8.40
Haricot beans..	119,879.32	1.50	986,737.74	.87	8.23
Chick-peas....	184,800.88	2.31	1,798,213.35	1.58	9.73
Lentils.....	60,138.28	.75	384,296.02	.34	6.39
Vetch.....	83,522.59	1.04	923,390.71	.81	11.06
Soya beans.....	1,769.47	.02	16,205.35	.01	9.16
Fenugreek.....	15,050.50	.19	100,265.85	.09	6.66
Gibto.....	7,252.36	.09	59,713.78	.05	8.23
Oilseeds.....	426,129.77	5.33	2,081,356.99	1.83	
Neug.....	232,201.06	2.90	841,895.92	.74	3.63
Linseed.....	98,595.71	1.23	510,517.51	.45	5.18
Groundnuts...	16,034.73	.20	132,851.20	.12	8.29
Sufflower.....	5,474.33	.07	37,662.27	.03	6.88
Sesame.....	58,780.38	.73	388,995.38	.34	6.62
Rapeseed.....	15,043.55	.19	169,434.71	.15	11.26
Vegetables.....	74,986.19	.94	2,886,097.17	2.54	
Lettuce.....	127.97	-	11,409.99	.01	89.16
Head Cabbage...	563.79	-	65,814.97	.06	116.74
Ethiopian Cabbage.....	14,528.37	.18	1,436,803.67	1.26	98.90
Tomatoes.....	1,545.39	.02	230,551.53	.20	149.19
Green peppers..	3,728.00	.05	360,388.79	.32	96.67
Red peppers....	54,376.32	.68	770,349.29	.68	14.17
Swiss chard....	116.34	-	10,778.93	-	92.65
Root Crops.....	110,627.84	1.38	11,361,366.84	10.00	
Beetroot.....	404.98	-	52,300.75	.05	129.14
Carrot.....	578.23	-	70,197.07	.06	121.40
Onion.....	10,488.50	.13	1,404,568.78	1.24	133.92
Potatoes.....	36,735.89	.46	3,852,580.64	3.39	104.87
Garlic.....	4,801.98	.06	704,707.29	.62	146.75
Taro/'Godere'	23,590.91	.29	1,885,508.45	1.66	79.93
Sweet potatoes.	34,027.35	.43	3,391,503.85	2.99	99.67

Table 2- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Tigray Region

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	537,572.86	100.00	6,510,626.66	100.00	
Cereals.....	462,525.86	86.04	5,769,783.57	88.62	
Teff.....	124,698.64	23.20	1,028,500.35	15.80	8.25
Barley.....	53,237.55	9.90	589,088.78	9.05	11.07
Wheat.....	63,215.93	11.76	744,801.82	11.44	11.78
Maize.....	52,217.67	9.71	894,972.01	13.75	17.14
Sorghum.....	114,058.73	21.22	1,923,492.34	29.54	16.86
Finger millet..	54,693.25	10.17	585,774.50	9.00	10.71
Oats/'Aja'.....	404.09	.08	3,153.76	.05	7.80
Rice.....	-	-	-	-	-
Pulses.....	42,714.51	7.95	432,963.34	6.65	
Horse beans....	14,988.12	2.79	199,150.69	3.06	13.29
Field peas.....	3,397.93	.63	37,094.03	.57	10.92
Haricot beans..	2,292.95	.43	9,987.43	.15	4.36
Chick-peas....	11,158.64	2.08	103,037.73	1.58	9.23
Lentils.....	4,587.49	.85	29,952.22	.46	6.53
Vetch.....	5,794.56	1.08	51,752.58	.79	8.93
Soya beans.....	50.60	-	130.67	-	2.58
Fenugreek.....	444.22	.08	1,857.99	.03	4.18
Gibto.....	-	-	-	-	-
Oilseeds.....	30,633.92	5.70	175,452.86	2.69	
Neug.....	5,134.73	.96	27,141.60	.42	5.29
Linseed.....	4,318.09	.80	16,907.29	.26	3.92
Groundnuts...	*	*	*	*	*
Sufflower.....	45.13	-	114.19	-	2.53
Sesame.....	21,093.57	3.92	131,119.66	2.01	6.22
Rapeseed.....	30.87	-	97.46	-	3.16
Vegetables.....	962.21	.18	39,963.15	.61	
Lettuce.....	8.52	-	851.65	.01	99.96
Head Cabbage...	15.17	-	1,639.16	.03	108.05
Ethiopian Cabbage.....	13.02	-	576.02	-	44.24
Tomatoes.....	76.19	.01	11,428.20	.18	150.00
Green peppers..	185.85	.03	17,826.65	.27	95.92
Red peppers....	653.94	.12	6,497.35	.10	9.94
Swiss chard....	9.53	-	1,144.14	.02	120.06
Root Crops.....	736.36	.14	92,463.74	1.42	
Beetroot.....	*	*	*	*	*
Carrot.....	38.21	-	4,649.59	.07	121.69
Onion.....	265.96	.05	35,602.93	.55	133.87
Potatoes.....	263.84	.05	27,669.89	.43	104.87
Garlic.....	160.99	.03	23,661.34	.36	146.97
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	1.69	-	143.89	-	85.14

Table 2.1- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

West Tigray Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	178,287.95	100.00	2,278,475.62	100.00	
Cereals.....	146,410.17	82.12	2,041,291.33	89.59	
Teff.....	29,281.11	16.42	236,737.55	10.39	8.08
Barley.....	1,319.70	.74	17,116.17	.75	12.97
Wheat.....	516.42	.29	7,384.18	.32	14.30
Maize.....	23,510.50	13.19	465,028.15	20.41	19.78
Sorghum.....	54,225.86	30.41	877,979.92	38.53	16.19
Finger millet..	37,543.68	21.06	437,045.37	19.18	11.64
Oats/'Aja'.....	12.91	-	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	5,797.41	3.25	57,901.55	2.54	
Horse beans....	1,686.62	.95	19,390.94	.85	11.50
Field peas.....	354.46	.20	3,441.31	.15	9.71
Haricot beans..	100.84	.06	976.19	.04	9.68
Chick-peas....	3,416.85	1.92	32,588.90	1.43	9.54
Lentils.....	*	*	*	*	*
Vetch.....	180.94	.10	1,290.18	.06	7.13
Soya beans.....	-	-	-	-	-
Fenugreek.....	53.60	.03	188.20	-	3.51
Gibto.....	-	-	-	-	-
Oilseeds.....	25,433.12	14.27	155,622.73	6.83	
Neug.....	4,242.42	2.38	24,113.14	1.06	5.68
Linseed.....	540.09	.30	2,262.90	.10	4.19
Groundnuts...	*	*	*	*	*
Sufflower.....	*	*	-	-	-
Sesame.....	20,624.05	11.57	129,094.22	5.67	6.26
Rapeseed.....	14.64	-	79.81	-	5.45
Vegetables.....	580.43	.33	14,760.25	.65	
Lettuce.....	*	*	*	*	*
Head Cabbage...	*	*	-	-	-
Ethiopian Cabbage.....	*	*	-	-	-
Tomatoes.....	*	*	*	*	*
Green peppers..	90.68	.05	9,068.10	.40	100.00
Red peppers.....	474.49	.27	4,540.97	.20	9.57
Swiss chard....	*	*	*	*	*
Root Crops.....	66.81	.04	8,899.76	.39	
Beetroot.....	-	-	-	-	-
Carrot.....	*	*	-	-	-
Onion.....	35.92	.02	4,849.15	.21	135.00
Potatoes.....	*	*	*	*	*
Garlic.....	18.74	.01	2,811.60	.12	150.03
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	*	*	-	-	-

Table 2.2- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Central Tigray Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	161,431.04	100.00	1,575,718.75	100.00	
Cereals.....	142,910.31	88.53	1,395,631.98	88.57	
Teff.....	52,065.86	32.25	365,174.28	23.18	7.01
Barley.....	12,742.64	7.89	112,013.14	7.11	8.79
Wheat.....	14,538.65	9.01	143,253.09	9.09	9.85
Maize.....	18,794.66	11.64	276,201.30	17.53	14.70
Sorghum.....	30,787.64	19.07	381,026.43	24.18	12.38
Finger millet..	13,966.08	8.65	117,801.09	7.48	8.43
Oats/'Aja'.....	*	*	*	*	*
Rice.....	-	-	-	-	-
Pulses.....	15,426.13	9.56	134,043.03	8.51	
Horse beans....	6,987.94	4.33	78,511.91	4.98	11.24
Field peas.....	612.03	.38	4,485.54	.28	7.33
Haricot beans..	1,139.71	.71	6,410.49	.41	5.62
Chick-peas....	3,292.02	2.04	23,170.00	1.47	7.04
Lentils.....	1,164.73	.72	6,416.43	.41	5.51
Vetch.....	1,871.62	1.16	13,573.01	.86	7.25
Soya beans....	31.34	.02	86.01	-	2.74
Fenugreek.....	326.74	.20	1,389.64	.09	4.25
Gibto.....	-	-	-	-	-
Oilseeds.....	2,723.21	1.69	10,017.25	.64	
Neug.....	857.61	.53	2,928.48	.19	3.41
Linseed.....	1,602.59	.99	5,797.80	.37	3.62
Groundnuts...	-	-	-	-	-
Sufflower.....	6.55	-	18.17	-	2.77
Sesame.....	252.33	.16	1,259.98	.08	4.99
Rapeseed.....	*	*	*	*	*
Vegetables.....	170.49	.11	10,060.51	.64	
Lettuce.....	2.01	-	201.06	.01	100.03
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	2.44	-	244.15	.02	100.06
Tomatoes.....	18.14	.01	2,721.45	.17	150.02
Green peppers..	53.36	.03	5,302.43	.34	99.37
Red peppers....	92.77	.06	1,380.00	.09	14.88
Swiss chard....	1.70	-	203.75	.01	119.85
Root Crops.....	200.90	.12	25,966.00	1.65	
Beetroot.....	*	*	*	*	*
Carrot.....	5.29	-	644.81	.04	121.89
Onion.....	99.41	.06	13,119.34	.83	131.97
Potatoes.....	42.68	.03	4,481.58	.28	105.00
Garlic.....	52.31	.03	7,579.60	.48	144.90
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	*	*	*	*	*

Table 2.3- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

East Tigray Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	51,641.31	100.00	634,152.93	100.00	
Cereals.....	44,136.20	85.47	535,116.52	84.38	9.59
Teff.....	5,730.06	11.10	54,973.79	8.67	12.41
Barley.....	16,288.11	31.54	202,115.22	31.87	12.08
Wheat.....	14,459.08	28.00	174,703.14	27.55	15.55
Maize.....	3,094.47	5.99	48,116.14	7.59	15.24
Sorghum.....	1,965.99	3.81	29,963.79	4.73	9.74
Finger millet.....	2,521.88	4.88	24,559.11	3.87	8.95
Oats/'Aja'.....	76.61	.15	685.35	.11	-
Rice.....	-	-	-	-	-
Pulses.....	6,636.71	12.85	78,475.73	12.37	15.90
Horse beans.....	1,691.36	3.28	26,897.43	4.24	12.54
Field peas.....	1,047.34	2.03	13,136.48	2.07	4.49
Haricot beans.....	15.42	.03	69.18	.01	9.95
Chick-peas.....	1,512.34	2.93	15,050.15	2.37	8.14
Lentils.....	543.90	1.05	4,426.44	.70	10.44
Vetch.....	1,799.14	3.48	18,789.81	2.96	-
Soya beans.....	*	*	-	-	4.44
Fenugreek.....	23.91	.05	106.24	.02	-
Gibto.....	-	-	-	-	-
Oilseeds.....	706.09	1.37	2,735.08	.43	3.38
Neug.....	12.62	.02	42.60	-	3.96
Linseed.....	679.24	1.32	2,687.65	.42	-
Groundnuts.....	*	*	-	-	-
Sufflower.....	-	-	-	-	-
Sesame.....	-	-	-	-	.40
Rapeseed.....	12.10	.02	4.84	-	-
Vegetables.....	42.81	.08	4,548.62	.72	100.08
Lettuce.....	.48	-	48.04	-	109.56
Head Cabbage.....	2.39	-	261.86	.04	-
Ethiopian Cabbage.....	*	*	-	-	-
Tomatoes.....	21.02	.04	3,153.20	.50	150.01
Green peppers.....	8.13	.02	812.81	.13	99.98
Red peppers.....	*	*	*	*	*
Swiss chard.....	1.95	-	234.27	.04	120.14
Root Crops.....	119.49	.23	13,276.97	2.09	-
Beetroot.....	*	*	-	-	-
Carrot.....	*	*	*	*	*
Onion.....	18.69	.04	2,523.25	.40	135.01
Potatoes.....	91.88	.18	9,647.67	1.52	105.00
Garlic.....	1.17	-	175.69	.03	150.16
Taro/'Godere'.....	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*

Table 2.4- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

South Tigray Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	146,212.57	100.00	2,022,279.35	100.00	
Cereals.....	129,069.17	88.28	1,797,743.74	88.90	
Teff.....	37,621.61	25.73	371,614.73	18.38	9.88
Barley.....	22,887.09	15.65	257,844.26	12.75	11.27
Wheat.....	33,701.79	23.05	419,461.41	20.74	12.45
Maize.....	6,818.05	4.66	105,626.43	5.22	15.49
Sorghum.....	27,079.24	18.52	634,522.20	31.38	23.43
Finger millet..	661.60	.45	6,368.94	.31	9.63
Oats/'Aja'.....	299.79	.21	2,305.78	.11	7.69
Rice.....	-	-	-	-	-
Pulses.....	14,854.26	10.16	162,543.03	8.04	
Horse beans....	4,622.20	3.16	74,350.41	3.68	16.09
Field peas.....	1,384.10	.95	16,030.71	.79	11.58
Haricot beans..	1,036.98	.71	2,531.57	.13	2.44
Chick-peas....	2,937.44	2.01	32,228.68	1.59	10.97
Lentils.....	2,874.76	1.97	19,083.51	.94	6.64
Vetch.....	1,942.85	1.33	18,099.58	.90	9.32
Soya beans.....	*	*	*	*	*
Fenugreek.....	39.97	.03	173.91	-	4.35
Gibto.....	-	-	-	-	-
Oilseeds.....	1,771.50	1.21	7,077.80	.35	
Neug.....	22.09	.02	57.38	-	2.60
Linseed.....	1,496.16	1.02	6,158.95	.30	4.12
Groundnuts...	-	-	-	-	-
Sufflower.....	36.05	.02	96.02	-	2.66
Sesame.....	217.19	.15	765.46	.04	3.52
Rapeseed.....	-	-	-	-	-
Vegetables.....	168.49	.12	10,593.78	.52	
Lettuce.....	*	*	*	*	*
Head Cabbage...	11.53	-	*	*	*
Ethiopian Cabbage.....	*	*	*	*	*
Tomatoes.....	30.04	.02	4,505.55	.22	149.99
Green peppers..	33.68	.02	2,643.30	.13	78.48
Red peppers....	78.99	.05	537.93	.03	6.81
Swiss chard....	5.62	-	674.95	.03	120.10
Root Crops.....	349.15	.24	44,321.01	2.19	
Beetroot.....	*	*	*	*	*
Carrot.....	25.72	.02	3,137.49	.16	121.99
Onion.....	111.93	.08	15,111.19	.75	135.01
Potatoes.....	117.47	.08	12,301.64	.61	104.72
Garlic.....	88.77	.06	13,094.46	.65	147.51
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	*	*	*	*	*

Table 3- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Afar Region

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	8,836.75	100.00	116,757.70	100.00	
Cereals.....	8,290.75	93.82	75,243.50	64.44	
Teff.....	694.64	7.86	3,433.15	2.94	4.94
Barley.....	21.41	.24	159.83	.14	7.47
Wheat.....	50.16	.57	194.31	.17	3.87
Maize.....	6,100.41	69.03	60,515.64	51.83	9.92
Sorghum.....	1,404.78	15.90	10,940.59	9.37	7.79
Finger millet..	*	*	-	-	-
Oats/'Aja'.....	-	-	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	103.20	1.17	288.14	.25	
Horse beans....	*	*	*	*	*
Field peas.....	*	*	*	*	*
Haricot beans..	35.05	.40	139.29	.12	3.97
Chick-peas....	59.56	.67	138.19	.12	2.32
Lentils.....	3.17	.04	.32	-	.10
Vetch.....	-	-	-	-	-
Soya beans....	-	-	-	-	-
Fenugreek.....	*	*	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	142.10	1.61	747.61	.64	
Neug.....	.58	-	1.46	-	2.52
Linseed.....	*	*	*	*	*
Groundnuts....	*	*	*	*	*
Sufflower.....	10.76	.12	32.83	.03	3.05
Sesame.....	*	*	*	*	*
Rapeseed.....	-	-	-	-	-
Vegetables.....	*	*	*	*	*
Lettuce.....	-	-	-	-	-
Head Cabbage..	-	-	-	-	-
Ethiopian Cabbage.....	*	*	*	*	*
Tomatoes.....	*	*	*	*	*
Green peppers..	2.04	.02	*	*	*
Red peppers....	5.48	.06	86.55	.07	15.79
Swiss chard....	-	-	-	-	-
Root Crops.....	235.78	2.67	31,781.74	27.22	
Beetroot.....	-	-	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	234.40	2.65	31,644.39	27.10	135.00
Potatoes.....	*	*	-	-	-
Garlic.....	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	*	*	*	*	*

Table 3.1- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Zone 1

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	5,267.79	100.00	49,814.04	100.00	
Cereals.....	5,234.07	99.36	49,640.98	99.65	
Teff.....	-	-	-	-	-
Barley.....	-	-	-	-	-
Wheat.....	-	-	-	-	-
Maize.....	5,150.66	97.78	48,816.55	98.00	9.48
Sorghum.....	64.05	1.22	824.43	1.66	12.87
Finger millet..	*	*	-	-	-
Oats/'Aja'.....	-	-	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	*	*	-	-	-
Horse beans....	-	-	-	-	-
Field peas.....	-	-	-	-	-
Haricot beans..	*	*	-	-	-
Chick-peas....	-	-	-	-	-
Lentils.....	-	-	-	-	-
Vetch.....	-	-	-	-	-
Soya beans....	-	-	-	-	-
Fenugreek.....	-	-	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	26.28	.50	167.92	.34	
Neug.....	-	-	-	-	-
Linseed.....	*	*	-	-	-
Groundnuts...	*	*	*	*	*
Safflower.....	-	-	-	-	-
Sesame.....	19.50	.37	167.50	.34	8.59
Rapeseed.....	-	-	-	-	-
Vegetables.....	*	*	*	*	
Lettuce.....	-	-	-	-	-
Head Cabbage...	-	-	-	-	-
Ethiopian Cabbage.....	-	-	-	-	-
Tomatoes.....	-	-	-	-	-
Green peppers..	*	*	-	-	-
Red peppers....	*	*	*	*	*
Swiss chard....	-	-	-	-	-
Root Crops.....	-	-	-	-	
Beetroot.....	-	-	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	-	-	-	-	-
Potatoes.....	-	-	-	-	-
Garlic.....	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	-	-	-	-	-

Table 3.2- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Zone 3

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	3,568.97	100.00	66,943.66	100.00	
Cereals.....	3,056.68	85.65	25,602.52	38.24	
Teff.....	694.64	19.46	3,433.15	5.13	4.94
Barley.....	21.41	.60	159.83	.24	7.47
Wheat.....	50.16	1.41	194.31	.29	3.87
Maize.....	949.75	26.61	11,699.09	17.48	12.32
Sorghum.....	1,340.72	37.57	10,116.15	15.11	7.55
Finger millet..	-	-	-	-	-
Oats/'Aja'.....	-	-	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	97.20	2.72	288.14	.43	
Horse beans.....	*	*	*	*	*
Field peas.....	*	*	*	*	*
Haricot beans..	29.04	.81	139.29	.21	4.80
Chick-peas.....	59.56	1.67	138.19	.21	2.32
Lentils.....	3.17	.09	.32	-	.10
Vetch.....	-	-	-	-	-
Soya beans.....	-	-	-	-	-
Fenugreek.....	*	*	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	*	*	*	*	*
Neug.....	.58	.02	1.46	-	2.52
Linseed.....	*	*	*	*	*
Groundnuts...	*	*	*	*	*
Safflower.....	10.76	.30	32.83	.05	3.05
Sesame.....	*	*	*	*	*
Rapeseed.....	-	-	-	-	-
Vegetables.....	*	*	*	*	*
Lettuce.....	-	-	-	-	-
Head Cabbage...	-	-	-	-	-
Ethiopian Cabbage.....	*	*	-	-	-
Tomatoes.....	*	*	*	*	*
Green peppers..	*	*	*	*	*
Red peppers.....	4.46	.13	81.41	.12	18.25
Swiss chard....	-	-	-	-	-
Root Crops.....	235.78	6.61	31,781.74	47.48	
Beetroot.....	-	-	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	234.40	6.57	31,644.39	47.27	135.00
Potatoes.....	*	*	-	-	-
Garlic.....	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-
Sweet potatoes..	*	*	*	*	*

Table 4- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Amhara Region

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	2,913,588.60	100.00	35,070,875.62	100.00	
Cereals.....	2,216,029.07	76.06	27,144,178.82	77.40	
Teff.....	778,202.03	26.71	6,973,002.40	19.88	8.96
Barley.....	274,628.32	9.43	3,127,282.40	8.92	11.39
Wheat.....	286,246.58	9.82	3,537,726.33	10.09	12.36
Maize.....	296,356.11	10.17	6,374,895.81	18.18	21.51
Sorghum.....	409,473.20	14.05	5,226,285.11	14.90	12.76
Finger millet..	155,526.83	5.34	1,678,717.62	4.79	10.79
Oats/'Aja'.....	8,996.12	.31	94,339.17	.27	10.49
Rice.....	6,599.88	.23	131,929.98	.38	19.99
Pulses.....	488,183.62	16.76	4,920,234.01	14.03	
Horse beans....	168,944.71	5.80	2,101,390.03	5.99	12.44
Field peas.....	78,144.77	2.68	640,910.81	1.83	8.20
Haricot beans..	22,518.39	.77	169,182.07	.48	7.51
Chick-peas....	109,431.99	3.76	1,038,747.98	2.96	9.49
Lentils.....	40,120.86	1.38	259,856.63	.74	6.48
Vetch.....	53,966.46	1.85	591,933.40	1.69	10.97
Soya beans....	250.80	-	2,065.92	-	8.24
Fenugreek.....	7,589.06	.26	56,828.13	.16	7.49
Gibto.....	7,216.57	.25	59,319.04	.17	8.22
Oilseeds.....	176,212.43	6.05	849,384.63	2.42	
Neug.....	119,547.94	4.10	450,479.57	1.28	3.77
Linseed.....	23,823.58	.82	97,426.90	.28	4.09
Groundnuts....	*	*	*	*	*
Sufflower.....	4,232.82	.15	29,411.52	.08	6.95
Sesame.....	18,111.31	.62	132,630.80	.38	7.32
Rapeseed.....	8,806.03	.30	122,592.55	.35	13.92
Vegetables.....	17,281.27	.59	338,913.11	.97	
Lettuce.....	*	*	*	*	*
Head Cabbage..	68.57	-	8,216.13	.02	119.82
Ethiopian Cabbage.....	295.07	.01	28,770.53	.08	97.50
Tomatoes.....	272.50	-	40,647.20	.12	149.16
Green peppers..	659.37	.02	63,436.14	.18	96.21
Red peppers....	15,950.20	.55	194,372.40	.55	12.19
Swiss chard....	21.60	-	2,534.44	-	117.34
Root Crops.....	15,882.21	.55	1,818,165.06	5.18	
Beetroot.....	55.08	-	7,122.40	.02	129.31
Carrot.....	110.52	-	13,388.58	.04	121.14
Onion.....	2,227.98	.08	295,650.62	.84	132.70
Potatoes.....	11,098.68	.38	1,164,293.93	3.32	104.90
Garlic.....	2,187.12	.08	320,664.85	.91	146.62
Taro/'Godere'	*	*	-	-	-
Sweet potatoes.	187.60	-	17,044.68	.05	90.86

Table 4.1- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

North Gonder Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	488,238.18	100.00	5,329,278.53	100.00	
Cereals.....	368,357.91	75.45	4,129,947.18	77.50	
Teff.....	100,588.16	20.60	804,839.58	15.10	8.00
Barley.....	40,525.81	8.30	432,215.43	8.11	10.67
Wheat.....	32,953.30	6.75	318,569.97	5.98	9.67
Maize.....	35,411.34	7.25	592,042.51	11.11	16.72
Sorghum.....	125,980.17	25.80	1,609,281.70	30.20	12.77
Finger millet..	30,162.54	6.18	348,347.86	6.54	11.55
Oats/'Aja'.....	2,224.12	.46	20,383.77	.38	9.16
Rice.....	512.47	.11	4,266.36	.08	8.33
Pulses.....	75,801.00	15.53	750,900.87	14.09	
Horse beans....	23,552.20	4.82	281,308.37	5.28	11.94
Field peas.....	12,101.64	2.48	101,586.58	1.91	8.39
Haricot beans..	2,895.42	.59	8,059.54	.15	2.78
Chick-peas....	27,521.15	5.64	280,472.47	5.26	10.19
Lentils.....	5,367.40	1.10	39,838.47	.75	7.42
Vetch.....	2,333.98	.48	24,594.10	.46	10.54
Soya beans.....	*	*	-	-	-
Fenugreek.....	1,989.95	.41	15,014.20	.28	7.55
Gibto.....	*	*	*	*	*
Oilseeds.....	39,562.57	8.10	223,818.73	4.20	
Neug.....	21,171.06	4.34	97,250.96	1.82	4.59
Linseed.....	3,631.06	.74	13,073.22	.25	3.60
Groundnuts....	*	*	-	-	-
Sufflower.....	1,543.51	.32	11,603.14	.22	7.52
Sesame.....	12,705.38	2.60	97,239.78	1.82	7.65
Rapeseed.....	510.58	.10	4,651.63	.09	9.11
Vegetables.....	3,163.28	.65	63,497.27	1.19	
Lettuce.....	*	*	-	-	-
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	20.84	-	2,063.53	.04	99.02
Tomatoes.....	*	*	*	*	*
Green peppers..	101.66	.02	10,153.10	.19	99.87
Red peppers....	2,989.13	.61	44,474.55	.83	14.88
Swiss chard....	*	*	*	*	*
Root Crops.....	1,353.42	.28	161,114.48	3.02	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	*	*	*
Onion.....	135.49	.03	18,291.82	.34	135.00
Potatoes.....	847.99	.17	89,022.89	1.67	104.98
Garlic.....	346.58	.07	51,987.69	.98	150.00
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	*	*	-	-	-

Table 4.2- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

South Gonder Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	374,072.11	100.00	3,913,269.56	100.00	
Cereals.....	262,202.31	70.09	2,639,448.82	67.45	
Teff.....	108,484.64	29.00	865,259.82	22.11	7.98
Barley.....	37,655.43	10.07	359,548.05	9.19	9.55
Wheat.....	33,752.77	9.02	347,664.25	8.88	10.30
Maize.....	33,813.78	9.04	546,430.91	13.96	16.16
Sorghum.....	17,531.29	4.69	146,381.07	3.74	8.35
Finger millet..	24,711.47	6.61	245,641.04	6.28	9.94
Oats/'Aja'....	398.72	.11	3,547.79	.09	8.90
Rice.....	5,854.22	1.57	124,975.88	3.19	21.35
Pulses.....	78,714.13	21.04	696,513.80	17.80	
Horse beans....	22,043.99	5.89	258,658.19	6.61	11.73
Field peas.....	12,082.13	3.23	108,963.47	2.78	9.02
Haricot beans..	4,250.51	1.14	33,297.60	.85	7.83
Chick-peas....	19,884.73	5.32	158,788.96	4.06	7.99
Lentils.....	4,524.37	1.21	16,958.85	.43	3.75
Vetch.....	13,580.58	3.63	100,713.82	2.57	7.42
Soya beans....	*	*	*	*	*
Fenugreek.....	241.76	.06	782.67	.02	3.24
Gibto.....	2,061.85	.55	17,590.13	.45	8.53
Oilseeds.....	26,387.95	7.05	114,998.55	2.94	
Neug.....	19,738.85	5.28	79,745.38	2.04	4.04
Linseed.....	4,506.28	1.20	19,556.59	.50	4.34
Groundnuts....	-	-	-	-	-
Sufflower.....	972.76	.26	5,547.30	.14	5.70
Sesame.....	*	*	*	*	*
Rapeseed.....	1,077.45	.29	10,003.04	.26	9.28
Vegetables.....	3,014.91	.81	54,575.26	1.39	
Lettuce.....	*	*	-	-	-
Head Cabbage..	*	*	-	-	-
Ethiopian Cabbage.....	52.27	.01	*	*	*
Tomatoes.....	*	*	*	*	*
Green peppers..	31.84	-	3,183.53	.08	99.99
Red peppers....	2,881.36	.77	39,014.06	1.00	13.54
Swiss chard....	2.86	-	*	*	*
Root Crops.....	3,752.81	1.00	407,733.14	10.42	
Beetroot.....	*	*	-	-	-
Carrot.....	*	*	*	*	*
Onion.....	218.99	.06	29,257.59	.75	133.60
Potatoes.....	3,318.65	.89	348,458.36	8.90	105.00
Garlic.....	206.96	.06	29,999.30	.77	144.95
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	*	*	-	-	-

Table 4.3- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

North Wolo Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	206,241.10	100.00	2,465,819.71	100.00	
Cereals.....	160,420.60	77.78	1,892,934.87	76.77	
Teff.....	52,808.34	25.61	450,881.19	18.29	8.54
Barley.....	31,596.67	15.32	444,447.99	18.02	14.07
Wheat.....	19,751.93	9.58	229,479.45	9.31	11.62
Maize.....	6,466.78	3.14	66,488.34	2.70	10.28
Sorghum.....	47,217.69	22.89	670,909.27	27.21	14.21
Finger millet.....	1,093.60	.53	14,745.56	.60	13.48
Oats/'Aja'.....	1,485.59	.72	15,983.08	.65	10.76
Rice.....	-	-	-	-	-
Pulses.....	39,952.93	19.37	439,270.15	17.81	
Horse beans.....	11,727.79	5.69	154,971.74	6.28	13.21
Field peas.....	8,949.38	4.34	89,577.19	3.63	10.01
Haricot beans.....	1,627.85	.79	14,545.75	.59	8.94
Chick-peas.....	8,998.03	4.36	96,127.01	3.90	10.68
Lentils.....	6,486.32	3.15	52,507.15	2.13	8.10
Vetch.....	1,574.16	.76	25,992.04	1.05	16.51
Soya beans.....	*	*	-	-	-
Fenugreek.....	588.26	.29	5,549.28	.23	9.43
Gibto.....	-	-	-	-	-
Oilseeds.....	4,596.64	2.23	24,955.34	1.01	
Neug.....	421.55	.20	2,936.64	.12	6.97
Linseed.....	3,060.02	1.48	13,826.71	.56	4.52
Groundnuts.....	*	*	*	*	*
Sufflower.....	423.93	.21	3,377.89	.14	7.97
Sesame.....	608.29	.29	4,214.09	.17	6.93
Rapeseed.....	*	*	*	*	*
Vegetables.....	641.24	.31	22,672.72	.92	
Lettuce.....	*	*	-	-	-
Head Cabbage.....	*	*	*	*	*
Ethiopian Cabbage.....	62.24	.03	6,086.92	.25	97.80
Tomatoes.....	*	*	*	*	*
Green peppers.....	57.32	.03	5,449.50	.22	95.07
Red peppers.....	503.73	.24	8,640.00	.35	17.15
Swiss chard.....	*	*	*	*	*
Root Crops.....	629.70	.31	85,986.64	3.49	
Beetroot.....	-	-	-	-	-
Carrot.....	*	*	*	*	*
Onion.....	163.00	.08	21,769.46	.88	133.55
Potatoes.....	113.78	.06	11,947.21	.48	105.00
Garlic.....	343.74	.17	51,397.27	2.08	149.52
Taro/'Godere'.....	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*

Table 4.4- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

South Wolo Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	342,388.07	100.00	4,076,410.15	100.00	
Cereals.....	253,663.08	74.09	2,977,951.35	73.05	
Teff.....	87,360.61	25.52	775,842.05	19.03	8.88
Barley.....	36,833.99	10.76	492,280.95	12.08	13.36
Wheat.....	51,567.76	15.06	628,906.68	15.43	12.20
Maize.....	13,267.04	3.87	213,991.63	5.25	16.13
Sorghum.....	59,588.38	17.40	809,902.98	19.87	13.59
Finger millet..	637.95	.19	7,021.80	.17	11.01
Oats/'Aja'.....	4,320.90	1.26	48,699.83	1.19	11.27
Rice.....	86.45	.03	1,305.44	.03	15.10
Pulses.....	80,306.83	23.45	898,541.61	22.04	
Horse beans.....	31,062.48	9.07	442,442.34	10.85	14.24
Field peas.....	12,762.62	3.73	106,192.94	2.61	8.32
Haricot beans..	3,129.62	.91	29,573.65	.73	9.45
Chick-peas.....	11,277.21	3.29	112,690.61	2.76	9.99
Lentils.....	10,969.33	3.20	77,928.41	1.91	7.10
Vetch.....	8,367.05	2.44	105,359.31	2.58	12.59
Soya beans.....	*	*	*	*	*
Fenugreek.....	2,726.03	.80	24,266.47	.60	8.90
Gibto.....	*	*	*	*	*
Oilseeds.....	6,642.31	1.94	31,601.93	.78	
Neug.....	2,860.02	.84	10,565.91	.26	3.69
Linseed.....	2,806.80	.82	12,550.12	.31	4.47
Groundnuts....	*	*	-	-	-
Sufflower.....	154.83	.05	1,530.17	.04	9.88
Sesame.....	750.38	.22	6,477.24	.16	8.63
Rapeseed.....	68.24	.02	478.49	.01	7.01
Vegetables.....	868.93	.25	46,829.11	1.15	
Lettuce.....	*	*	*	*	*
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	51.30	.02	4,916.85	.12	95.85
Tomatoes.....	*	*	*	*	*
Green peppers..	89.91	.03	8,952.60	.22	99.57
Red peppers....	541.14	.16	6,480.93	.16	11.98
Swiss chard....	*	*	*	*	*
Root Crops.....	906.92	.26	121,486.15	2.98	
Beetroot.....	21.23	-	2,760.44	.07	130.03
Carrot.....	73.47	.02	8,963.34	.22	122.00
Onion.....	144.93	.04	19,081.27	.47	131.66
Potatoes.....	185.97	.05	19,444.83	.48	104.56
Garlic.....	473.68	.14	70,594.04	1.73	149.03
Taro/'Godere'	*	*	-	-	-
Sweet potatoes.	6.42	-	642.24	.02	100.04

Table 4.5- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

North Shewa(Amhara) Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	354,434.56	100.00	3,976,001.16	100.00	
Cereals.....	273,224.82	77.09	2,995,383.81	75.34	
Teff.....	78,689.62	22.20	630,058.77	15.85	8.01
Barley.....	34,348.05	9.69	368,296.27	9.26	10.72
Wheat.....	62,652.99	17.68	738,657.15	18.58	11.79
Maize.....	7,794.63	2.20	78,331.57	1.97	10.05
Sorghum.....	89,334.53	25.20	1,176,045.84	29.58	13.16
Finger millet..	266.73	.08	2,819.61	.07	10.57
Oats/'Aja'.....	138.27	.04	1,174.61	.03	8.50
Rice.....	-	-	-	-	-
Pulses.....	72,659.95	20.50	731,295.02	18.39	
Horse beans....	30,835.17	8.70	387,642.32	9.75	12.57
Field peas.....	9,873.19	2.79	66,177.62	1.66	6.70
Haricot beans..	2,017.12	.57	14,136.53	.36	7.01
Chick-peas....	16,048.67	4.53	152,701.17	3.84	9.51
Lentils.....	8,657.23	2.44	51,869.49	1.30	5.99
Vetch.....	3,917.89	1.11	50,799.11	1.28	12.97
Soya beans.....	10.78	-	-	-	-
Fenugreek.....	1,281.62	.36	7,875.51	.20	6.14
Gibto.....	*	*	*	*	*
Oilseeds.....	6,383.32	1.80	28,942.23	.73	
Neug.....	847.67	.24	2,322.42	.06	2.74
Linseed.....	3,594.06	1.01	12,320.81	.31	3.43
Groundnuts...	*	*	*	*	*
Sufflower.....	620.05	.17	4,839.70	.12	7.81
Sesame.....	1,248.74	.35	9,058.27	.23	7.25
Rapeseed.....	65.43	.02	389.26	-	5.95
Vegetables.....	750.53	.21	30,854.14	.78	
Lettuce.....	*	*	*	*	*
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	43.77	.01	4,325.63	.11	98.83
Tomatoes.....	*	*	*	*	*
Green peppers..	146.25	.04	14,022.84	.35	95.88
Red peppers....	526.27	.15	7,657.23	.19	14.55
Swiss chard....	1.45	-	173.97	-	119.98
Root Crops.....	1,415.94	.40	189,525.97	4.77	
Beetroot.....	6.42	-	834.16	.02	129.93
Carrot.....	*	*	*	*	*
Onion.....	944.62	.27	127,277.66	3.20	134.74
Potatoes.....	107.09	.03	11,154.85	.28	104.16
Garlic.....	297.06	.08	43,891.12	1.10	147.75
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	46.79	.01	4,678.75	.12	99.99

Table 4.6- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

East Gojam Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	433,247.21	100.00	5,691,063.79	100.00	
Cereals.....	338,860.27	78.21	4,582,189.37	80.52	
Teff.....	169,824.93	39.20	1,969,216.35	34.60	11.60
Barley.....	41,914.13	9.67	483,543.44	8.50	11.54
Wheat.....	58,851.09	13.58	923,962.39	16.24	15.70
Maize.....	46,822.50	10.81	953,600.35	16.76	20.37
Sorghum.....	19,832.47	4.58	236,872.29	4.16	11.94
Finger millet..	1,547.38	.36	13,980.47	.25	9.03
Oats/'Aja'.....	67.77	.02	1,014.08	.02	14.96
Rice.....	-	-	-	-	-
Pulses.....	70,374.08	16.24	739,030.46	12.99	
Horse beans....	21,122.90	4.88	248,839.93	4.37	11.78
Field peas.....	11,114.92	2.57	87,355.12	1.54	7.86
Haricot beans..	4,618.88	1.07	40,718.82	.72	8.82
Chick-peas....	16,028.93	3.70	168,663.08	2.96	10.52
Lentils.....	1,884.36	.43	10,032.76	.18	5.32
Vetch.....	13,962.52	3.22	169,591.66	2.98	12.15
Soya beans.....	*	*	*	*	*
Fenugreek.....	447.93	.10	2,196.19	.04	4.90
Gibto.....	1,146.39	.26	11,358.87	.20	9.91
Oilseeds.....	20,490.28	4.73	98,174.41	1.73	
Neug.....	16,311.22	3.76	70,712.64	1.24	4.34
Linseed.....	2,745.05	.63	13,675.52	.24	4.98
Groundnuts....	-	-	-	-	-
Sufflower.....	46.98	.01	*	*	*
Sesame.....	*	*	*	*	*
Rapeseed.....	1,346.64	.31	13,459.67	.24	10.00
Vegetables.....	1,415.96	.33	39,046.22	.69	
Lettuce.....	-	-	-	-	-
Head Cabbage...	3.00	-	359.45	-	119.82
Ethiopian Cabbage.....	29.02	-	2,764.03	.05	95.25
Tomatoes.....	*	*	*	*	*
Green peppers..	198.19	.05	18,536.59	.33	93.53
Red peppers....	1,182.76	.27	16,949.57	.30	14.33
Swiss chard....	*	*	*	*	*
Root Crops.....	2,106.62	.49	232,623.33	4.09	
Beetroot.....	10.07	-	1,308.46	.02	129.94
Carrot.....	*	*	*	*	*
Onion.....	248.93	.06	33,361.90	.59	134.02
Potatoes.....	1,698.71	.39	178,364.73	3.13	105.00
Garlic.....	131.10	.03	19,128.58	.34	145.91
Taro/'Godere'	*	*	-	-	-
Sweet potatoes.	*	*	*	*	*

Table 4.7- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

West Gojam Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	414,963.80	100.00	5,998,853.80	100.00	
Cereals.....	316,613.68	76.30	4,988,458.21	83.16	
Teff.....	102,547.05	24.71	891,801.22	14.87	8.70
Barley.....	26,190.86	6.31	299,753.92	5.00	11.44
Wheat.....	15,753.60	3.80	247,049.26	4.12	15.68
Maize.....	110,650.02	26.67	2,879,413.73	48.00	26.02
Sorghum.....	3,140.62	.76	34,961.10	.58	11.13
Finger millet..	58,140.74	14.01	633,820.14	10.57	10.90
Oats/'Aja'.....	190.78	.05	1,658.85	.03	8.70
Rice.....	-	-	-	-	-
Pulses.....	46,662.89	11.25	486,010.60	8.10	
Horse beans....	18,076.52	4.36	225,755.97	3.76	12.49
Field peas.....	6,507.16	1.57	50,377.20	.84	7.74
Haricot beans..	1,702.93	.41	16,114.55	.27	9.46
Chick-peas....	7,540.53	1.82	57,055.83	.95	7.57
Lentils.....	138.86	.03	567.61	-	4.09
Vetch.....	10,106.37	2.44	113,504.83	1.89	11.23
Soya beans.....	*	*	*	*	*
Fenugreek.....	288.54	.07	1,052.78	.02	3.65
Gibto.....	2,292.95	.55	21,469.11	.36	9.36
Oilseeds.....	43,080.00	10.38	212,195.88	3.54	
Neug.....	36,044.74	8.69	123,603.01	2.06	3.43
Linseed.....	2,094.00	.50	9,111.55	.15	4.35
Groundnuts...	*	*	-	-	-
Safflower.....	54.24	.01	311.51	-	5.74
Sesame.....	*	*	*	*	*
Rapeseed.....	4,703.15	1.13	78,462.98	1.31	16.68
Vegetables.....	6,376.84	1.54	65,156.90	1.09	
Lettuce.....	*	*	-	-	-
Head Cabbage...	11.88	-	1,426.15	.02	120.05
Ethiopian Cabbage..	18.63	-	1,862.89	.03	99.99
Tomatoes.....	7.00	-	1,049.63	.02	149.95
Green peppers...	21.29	-	1,846.39	.03	86.73
Red peppers....	6,317.28	1.52	58,971.84	.98	9.34
Swiss chard....	-	-	-	-	-
Root Crops.....	2,230.41	.54	247,032.20	4.12	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	*	*	*
Onion.....	204.86	.05	24,187.14	.40	118.07
Potatoes.....	1,646.15	.40	172,417.84	2.87	104.74
Garlic.....	325.59	.08	44,514.60	.74	136.72
Taro/'Godere'	-	-	-	-	-
Sweet potatoes..	*	*	*	*	*

Table 4.8- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Waghamera Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	67,453.20	100.00	492,087.17	100.00	
Cereals.....	52,893.60	78.42	382,543.74	77.74	
Teff.....	18,886.71	28.00	107,939.24	21.94	5.72
Barley.....	10,996.75	16.30	82,618.23	16.79	7.51
Wheat.....	6,493.88	9.63	50,159.29	10.19	7.72
Maize.....	1,292.82	1.92	8,542.38	1.74	6.61
Sorghum.....	14,923.54	22.12	131,367.87	26.70	8.80
Finger millet..	299.49	.44	1,914.77	.39	6.39
Oats/'Aja'	*	*	*	*	*
Rice.....	-	-	-	-	-
Pulses.....	13,089.33	19.41	102,323.44	20.79	
Horse beans....	7,129.48	10.57	68,982.12	14.02	9.68
Field peas.....	1,712.00	2.54	12,384.39	2.52	7.23
Haricot beans..	1,194.47	1.77	5,128.05	1.04	4.29
Chick-peas....	1,030.37	1.53	6,173.03	1.25	5.99
Lentils.....	2,012.29	2.98	9,647.28	1.96	4.79
Vetch.....	*	*	-	-	-
Soya beans.....	-	-	-	-	-
Fenugreek.....	3.64	-	8.57	-	2.35
Gibto.....	*	*	-	-	-
Oilseeds.....	1,444.45	2.14	4,427.81	.90	
Neug.....	156.04	.23	290.09	.06	1.86
Linseed.....	676.29	1.00	1,662.40	.34	2.46
Groundnuts...	*	*	-	-	-
Sufflower.....	283.87	.42	1,273.77	.26	4.49
Sesame.....	*	*	*	*	*
Rapeseed.....	*	*	-	-	-
Vegetables.....	8.61	.01	*	*	
Lettuce.....	-	-	-	-	-
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	*	*	-	-	-
Tomatoes.....	*	*	*	*	*
Green peppers..	*	*	*	*	*
Red peppers....	*	*	*	*	*
Swiss chard....	-	-	-	-	-
Root Crops.....	17.21	.03	2,219.35	.45	
Beetroot.....	*	*	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	*	*	*	*	*
Potatoes.....	3.32	-	348.44	.07	104.95
Garlic.....	8.06	.01	1,208.84	.25	149.98
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	-	-	-	-	-

Table 4.9- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Awji Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	187,853.34	100.00	2,623,667.04	100.00	
Cereals.....	148,459.17	79.03	2,079,131.80	79.25	
Teff.....	50,020.21	26.63	398,161.10	15.18	7.96
Barley.....	13,967.23	7.44	158,054.30	6.02	11.32
Wheat.....	4,392.10	2.34	52,607.88	2.01	11.98
Maize.....	33,749.38	17.97	958,321.98	36.53	28.40
Sorghum.....	7,511.40	4.00	99,974.82	3.81	13.31
Finger millet..	38,576.92	20.54	409,626.95	15.61	10.62
Oats/'Aja'.....	128.68	.07	1,320.15	.05	10.26
Rice.....	113.25	.06	1,064.62	.04	9.40
Pulses.....	9,095.90	4.84	65,343.08	2.49	
Horse beans....	3,171.21	1.69	29,745.92	1.13	9.38
Field peas.....	2,897.77	1.54	16,694.95	.64	5.76
Haricot beans..	612.93	.33	*	*	*
Chick-peas....	489.82	.26	2,390.09	.09	4.88
Lentils.....	*	*	*	*	*
Vetch.....	*	*	*	*	*
Soya beans....	*	*	*	*	*
Fenugreek.....	21.23	.01	82.46	-	3.88
Gibto.....	1,682.04	.90	8,736.61	.33	5.19
Oilseeds.....	25,857.06	13.76	97,270.93	3.71	
Neug.....	21,922.26	11.67	62,803.41	2.39	2.86
Linseed.....	671.28	.36	1,550.09	.06	2.31
Groundnuts...	*	*	*	*	*
Sufflower.....	*	*	*	*	*
Sesame.....	691.01	.37	*	*	*
Rapeseed.....	897.89	.48	13,722.31	.52	15.28
Vegetables.....	994.96	.53	14,393.59	.55	
Lettuce.....	*	*	*	*	*
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	9.05	-	905.15	.03	100.02
Tomatoes.....	*	*	*	*	*
Green peppers..	7.32	-	731.92	.03	99.99
Red peppers....	971.72	.52	11,846.14	.45	12.19
Swiss chard....	*	*	*	*	*
Root Crops.....	3,446.25	1.83	367,527.64	14.01	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	*	*	*
Onion.....	*	*	*	*	*
Potatoes.....	3,175.62	1.69	332,989.20	12.69	104.86
Garlic.....	48.42	.03	7,127.72	.27	147.21
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	*	*	*	*	*

Table 4.10- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Oromia Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	44,697.02	100.00	504,424.71	100.00	
Cereals.....	41,333.64	92.48	476,189.68	94.40	
Teff.....	8,991.75	20.12	79,003.10	15.66	8.79
Barley.....	599.41	1.34	6,523.81	1.29	10.88
Wheat.....	77.15	.17	670.02	.13	8.68
Maize.....	7,087.82	15.86	77,732.41	15.41	10.97
Sorghum.....	24,413.12	54.62	310,588.19	61.57	12.72
Finger millet..	90.01	.20	799.43	.16	8.88
Oats/'Aja'.....	*	*	*	*	*
Rice.....	33.49	.07	317.67	.06	9.49
Pulses.....	1,526.57	3.42	11,005.00	2.18	
Horse beans....	222.97	.50	3,043.15	.60	13.65
Field peas.....	143.95	.32	1,601.36	.32	11.12
Haricot beans..	468.66	1.05	2,162.79	.43	4.61
Chick-peas....	612.55	1.37	3,685.72	.73	6.02
Lentils.....	75.17	.17	499.98	.10	6.65
Vetch.....	*	*	*	*	*
Soya beans.....	-	-	-	-	-
Fenugreek.....	*	*	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	1,767.85	3.96	12,998.81	2.58	
Neug.....	74.53	.17	249.13	.05	3.34
Linseed.....	38.74	.09	99.90	.02	2.58
Groundnuts...	*	*	*	*	*
Sufflower.....	126.60	.28	763.13	.15	6.03
Sesame.....	1,470.52	3.29	11,047.16	2.19	7.51
Rapeseed.....	*	*	*	*	*
Vegetables.....	46.03	.10	1,315.07	.26	
Lettuce.....	-	-	-	-	-
Head Cabbage...	-	-	-	-	-
Ethiopian Cabbage.....	6.34	.01	634.01	.13	100.00
Tomatoes.....	1.35	-	-	-	-
Green peppers..	3.53	-	353.02	.07	100.01
Red peppers....	34.80	.08	328.05	.07	9.43
Swiss chard....	*	*	-	-	-
Root Crops.....	22.93	.05	2,916.15	.58	
Beetroot.....	*	*	-	-	-
Carrot.....	*	*	-	-	-
Onion.....	*	*	*	*	*
Potatoes.....	*	*	*	*	*
Garlic.....	*	*	*	*	*
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	*	*	*	*	*

Table 5- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Oromia Region

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	3,532,674.25	100.00	54,338,047.27	100.00	
Cereals.....	2,911,616.17	82.42	44,260,457.24	81.45	
Teff.....	762,119.72	21.57	7,132,516.16	13.13	9.36
Barley.....	367,426.19	10.40	4,773,395.38	8.78	12.99
Wheat.....	545,923.45	15.45	8,595,217.36	15.82	15.74
Maize.....	729,461.83	20.65	16,603,874.24	30.56	22.76
Sorghum.....	437,397.55	12.38	6,355,852.91	11.70	14.53
Finger millet..	49,335.52	1.40	546,501.28	1.01	11.08
Oats/'Aja'.....	19,366.68	.55	243,587.90	.45	12.58
Rice.....	585.23	.02	9,512.02	.02	16.25
Pulses.....	363,960.71	10.30	3,780,677.15	6.96	
Horse beans....	137,377.84	3.89	1,674,197.88	3.08	12.19
Field peas.....	64,706.78	1.83	567,644.28	1.04	8.77
Haricot beans..	63,451.13	1.80	558,896.85	1.03	8.81
Chick-peas.....	55,644.95	1.58	587,091.16	1.08	10.55
Lentils.....	14,003.14	.40	87,532.12	.16	6.25
Vetch.....	21,973.47	.62	263,707.90	.49	12.00
Soya beans.....	254.31	-	1,422.20	-	5.59
Fenugreek.....	6,549.10	.19	40,184.75	.07	6.14
Gibto.....	-	-	-	-	-
Oilseeds.....	188,391.65	5.33	908,390.50	1.67	
Neug.....	93,154.34	2.64	324,256.03	.60	3.48
Linseed.....	68,819.37	1.95	391,211.26	.72	5.68
Groundnuts...	10,095.95	.29	77,559.23	.14	7.68
Sufflower.....	916.05	.03	6,143.14	.01	6.71
Sesame.....	9,908.61	.28	64,974.53	.12	6.56
Rapeseed.....	5,497.34	.16	44,246.31	.08	8.05
Vegetables.....	29,731.42	.84	1,226,601.46	2.26	
Lettuce.....	101.52	-	9,281.35	.02	91.42
Head Cabbage...	377.35	.01	44,121.39	.08	116.92
Ethiopian Cabbage.....	5,183.18	.15	516,417.58	.95	99.63
Tomatoes.....	960.93	.03	143,727.59	.26	149.57
Green peppers..	2,201.75	.06	213,440.58	.39	96.94
Red peppers....	20,867.07	.59	294,901.84	.54	14.13
Swiss chard....	39.63	-	4,711.13	-	118.88
Root Crops.....	38,974.29	1.10	4,161,920.92	7.66	
Beetroot.....	276.21	-	35,643.72	.07	129.05
Carrot.....	257.52	-	31,261.69	.06	121.40
Onion.....	6,280.17	.18	846,027.81	1.56	134.71
Potatoes.....	14,955.94	.42	1,568,878.24	2.89	104.90
Garlic.....	1,799.45	.05	263,152.02	.48	146.24
Taro/'Godere'	5,847.27	.17	467,565.93	.86	79.96
Sweet potatoes.	9,557.72	.27	949,391.51	1.75	99.33

Table 5.1- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

West Welega Zone

Crop	Area		Production		Yield QT/HA
	Hectares	%	Quintals	%	
TOTAL	236,232.68	100.00	3,863,493.89	100.00	
Cereals.....	195,354.63	82.70	3,105,583.53	80.38	
Teff.....	31,521.12	13.34	216,228.54	5.60	6.86
Barley.....	3,474.67	1.47	27,828.82	.72	8.01
Wheat.....	10,964.04	4.64	131,982.70	3.42	12.04
Maize.....	80,460.24	34.06	1,796,982.20	46.51	22.33
Sorghum.....	44,585.09	18.87	691,333.96	17.89	15.51
Finger millet..	24,164.60	10.23	239,271.90	6.19	9.90
Oats/'Aja'.....	184.87	.08	1,955.41	.05	10.58
Rice.....	-	-	-	-	-
Pulses.....	19,878.86	8.41	161,924.64	4.19	
Horse beans....	7,199.49	3.05	62,398.72	1.62	8.67
Field peas.....	3,682.07	1.56	26,600.23	.69	7.22
Haricot beans..	7,264.28	3.08	60,851.51	1.58	8.38
Chick-peas....	1,367.53	.58	10,544.21	.27	7.71
Lentils.....	48.19	.02	249.10	-	5.17
Vetch.....	98.36	.04	366.44	-	3.73
Soya beans....	8.77	-	44.35	-	5.06
Fenugreek.....	210.17	.09	870.08	.02	4.14
Gibto.....	-	-	-	-	-
Oilseeds.....	12,790.01	5.41	50,692.20	1.31	
Neug.....	10,179.98	4.31	33,537.27	.87	3.29
Linseed.....	230.87	.10	753.31	.02	3.26
Groundnuts...	19.84	-	82.85	-	4.18
Sufflower.....	54.60	.02	455.40	.01	8.34
Sesame.....	1,051.93	.45	6,874.86	.18	6.54
Rapeseed.....	1,252.79	.53	8,988.51	.23	7.17
Vegetables.....	4,049.46	1.71	111,350.28	2.88	
Lettuce.....	*	-	-	-	-
Head Cabbage...	12.54	-	1,499.91	.04	119.61
Ethiopian Cabbage.....	224.96	.10	22,235.20	.58	98.84
Tomatoes.....	*	*	*	*	*
Green peppers..	275.53	.12	26,906.91	.70	97.66
Red peppers....	3,526.36	1.49	59,393.76	1.54	16.84
Swiss chard....	*	*	*	*	*
Root Crops.....	4,159.73	1.76	433,943.25	11.23	
Beetroot.....	29.76	.01	3,869.35	.10	130.02
Carrot.....	14.69	-	1,786.53	.05	121.62
Onion.....	100.30	.04	13,070.94	.34	130.32
Potatoes.....	2,155.84	.91	226,336.95	5.86	104.99
Garlic.....	143.56	.06	20,533.49	.53	143.03
Taro/'Godere'	147.48	.06	11,792.06	.31	79.96
Sweet potatoes.	1,568.08	.66	156,553.92	4.05	99.84

Table 5.2- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

East Welega Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	305,268.89	100.00	4,630,714.38	100.00	
Cereals.....	230,212.60	75.41	4,023,675.33	86.89	
Teff.....	86,924.36	28.47	823,284.46	17.78	9.47
Barley.....	15,055.63	4.93	171,397.62	3.70	11.38
Wheat.....	15,306.65	5.01	250,880.25	5.42	16.39
Maize.....	74,737.99	24.48	2,119,476.06	45.77	28.36
Sorghum.....	25,049.93	8.21	506,985.27	10.95	20.24
Finger millet..	12,592.24	4.13	144,555.33	3.12	11.48
Oats/'Aja'.....	275.30	.09	3,210.84	.07	11.66
Rice.....	270.51	.09	3,885.51	.08	14.36
Pulses.....	18,392.26	6.02	194,626.01	4.20	
Horse beans.....	10,924.09	3.58	130,161.55	2.81	11.92
Field peas.....	5,238.68	1.72	43,175.68	.93	8.24
Haricot beans..	1,668.49	.55	17,778.36	.38	10.66
Chick-peas.....	410.46	.13	2,895.69	.06	7.05
Lentils.....	21.59	-	72.05	-	3.34
Vetch.....	15.93	-	-	-	-
Soya beans.....	30.01	-	*	*	*
Fenugreek.....	83.01	.03	293.66	-	3.54
Gibto.....	-	-	-	-	-
Oilseeds.....	53,172.99	17.42	214,417.34	4.63	
Neug.....	42,570.73	13.95	140,966.29	3.04	3.31
Linseed.....	1,425.59	.47	4,445.50	.10	3.12
Groundnuts...	1,235.84	.40	13,084.52	.28	10.59
Sufflower.....	206.63	.07	1,048.19	.02	5.07
Sesame.....	6,620.72	2.17	44,533.99	.96	6.73
Rapeseed.....	1,113.49	.36	10,338.85	.22	9.29
Vegetables.....	2,158.62	.71	51,265.50	1.11	
Lettuce.....	*	*	-	-	-
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	26.35	-	2,368.03	.05	89.87
Tomatoes.....	*	*	*	*	*
Green peppers..	239.36	.08	22,917.74	.49	95.75
Red peppers....	1,880.65	.62	24,685.78	.53	13.13
Swiss chard....	*	*	*	*	*
Root Crops.....	1,332.43	.44	146,730.20	3.17	
Beetroot.....	8.76	-	1,131.25	.02	129.14
Carrot.....	1.96	-	238.15	-	121.51
Onion.....	115.71	.04	15,454.23	.33	133.56
Potatoes.....	673.92	.22	70,403.71	1.52	104.47
Garlic.....	152.86	.05	22,415.35	.48	146.64
Taro/'Godere'	40.34	.01	3,199.37	.07	79.31
Sweet potatoes.	338.88	.11	33,888.14	.73	100.00

Table 5.3- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Illubabor Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	175,736.38	100.00	2,492,824.24	100.00	
Cereals.....	154,911.53	88.15	2,248,552.23	90.20	
Teff.....	49,032.47	27.90	433,351.04	17.38	8.84
Barley.....	5,184.93	2.95	38,017.49	1.53	7.33
Wheat.....	3,697.65	2.10	29,652.29	1.19	8.02
Maize.....	70,876.92	40.33	1,405,705.75	56.39	19.83
Sorghum.....	21,334.68	12.14	284,503.35	11.41	13.34
Finger millet.....	4,546.06	2.59	54,711.08	2.19	12.03
Oats/'Aja'.....	117.29	.07	671.64	.03	5.73
Rice.....	121.52	.07	1,939.59	.08	15.96
Pulses.....	14,683.32	8.36	106,051.11	4.25	
Horse beans.....	5,211.57	2.97	38,641.64	1.55	7.41
Field peas.....	4,689.05	2.67	30,236.19	1.21	6.45
Haricot beans.....	3,399.28	1.93	28,484.99	1.14	8.38
Chick-peas.....	1,150.57	.65	7,822.61	.31	6.80
Lentils.....	*	*	-	-	-
Vetch.....	79.52	.05	353.32	.01	4.44
Soya beans.....	*	*	*	*	*
Fenugreek.....	144.69	.08	504.86	.02	3.49
Gibto.....	-	-	-	-	-
Oilseeds.....	3,060.73	1.74	11,704.73	.47	
Neug.....	2,048.47	1.17	6,929.13	.28	3.38
Linseed.....	407.25	.23	1,333.19	.05	3.27
Groundnuts.....	14.65	-	162.32	-	11.08
Sufflower.....	13.06	-	35.85	-	2.75
Sesame.....	337.56	.19	2,038.83	.08	6.04
Rapeseed.....	239.75	.14	1,205.41	.05	5.03
Vegetables.....	2,529.32	1.44	73,327.65	2.94	
Lettuce.....	*	*	*	*	*
Head Cabbage.....	15.78	-	1,893.15	.08	119.97
Ethiopian Cabbage.....	199.88	.11	19,920.25	.80	99.66
Tomatoes.....	*	*	*	*	*
Green peppers.....	157.33	.09	15,608.03	.63	99.21
Red peppers.....	2,148.72	1.22	34,800.24	1.40	16.20
Swiss chard.....	.86	-	102.94	-	119.70
Root Crops.....	551.47	.31	53,188.52	2.13	
Beetroot.....	16.76	-	2,179.29	.09	130.03
Carrot.....	1.11	-	135.26	-	121.86
Onion.....	26.98	.02	3,622.22	.15	134.26
Potatoes.....	67.63	.04	7,101.01	.28	105.00
Garlic.....	34.53	.02	4,985.34	.20	144.38
Taro/'Godere'.....	259.35	.15	20,731.51	.83	79.94
Sweet potatoes.....	145.11	.08	14,433.90	.58	99.47

Table 5.4- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Jimma Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	316,801.36	100.00	5,470,482.92	100.00	
Cereals.....	271,039.05	85.55	4,384,005.73	80.14	
Teff.....	83,453.86	26.34	781,245.27	14.28	9.36
Barley.....	16,803.73	5.30	197,799.23	3.62	11.77
Wheat.....	27,798.29	8.77	353,381.16	6.46	12.71
Maize.....	102,350.46	32.31	2,479,004.51	45.32	24.22
Sorghum.....	34,547.23	10.91	485,430.74	8.87	14.05
Finger millet..	4,508.42	1.42	68,388.72	1.25	15.17
Oats/'Aja'.....	1,411.56	.45	15,082.39	.28	10.68
Rice.....	165.51	.05	3,673.71	.07	22.20
Pulses.....	24,392.61	7.70	269,146.00	4.92	
Horse beans....	13,422.16	4.24	163,917.80	3.00	12.21
Field peas.....	7,927.54	2.50	76,013.39	1.39	9.59
Haricot beans..	1,214.58	.38	*	*	*
Chick-peas....	1,608.58	.51	13,004.44	.24	8.08
Lentils.....	182.78	.06	703.65	.01	3.85
Vetch.....	*	*	*	*	*
Soya beans.....	*	*	-	-	-
Fenugreek.....	14.34	-	37.99	-	2.65
Gibto.....	-	-	-	-	-
Oilseeds.....	10,739.59	3.39	38,546.88	.70	
Neug.....	8,411.79	2.66	29,502.34	.54	3.51
Linseed.....	1,908.54	.60	7,014.06	.13	3.68
Groundnuts...	*	*	*	*	*
Safflower.....	*	*	-	-	-
Sesame.....	257.60	.08	1,273.83	.02	4.94
Rapeseed.....	58.77	.02	216.59	-	3.69
Vegetables.....	3,889.39	1.23	196,846.13	3.60	
Lettuce.....	*	*	*	*	*
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	1,295.13	.41	129,512.90	2.37	100.00
Tomatoes.....	*	*	*	*	*
Green peppers..	216.94	.07	21,685.32	.40	99.96
Red peppers....	2,232.46	.70	28,233.25	.52	12.65
Swiss chard....	*	*	*	*	*
Root Crops.....	6,740.72	2.13	581,938.18	10.64	
Beetroot.....	7.48	-	972.30	.02	129.99
Carrot.....	11.25	-	1,373.09	.03	122.05
Onion.....	85.79	.03	11,581.00	.21	134.99
Potatoes.....	771.51	.24	81,008.70	1.48	105.00
Garlic.....	147.39	.05	21,876.11	.40	148.42
Taro/'Godere'	5,329.71	1.68	426,376.91	7.79	80.00
Sweet potatoes.	*	*	*	*	*

Table 5.5- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

West Shewa Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	589,140.94	100.00	8,779,490.12	100.00	
Cereals.....	472,082.32	80.13	7,283,255.62	82.96	
Teff.....	201,401.24	34.19	2,258,105.64	25.72	11.21
Barley.....	67,982.92	11.54	876,022.01	9.98	12.89
Wheat.....	82,896.09	14.07	1,296,863.12	14.77	15.64
Maize.....	71,657.72	12.16	2,023,049.37	23.04	28.23
Sorghum.....	46,011.47	7.81	800,918.53	9.12	17.41
Finger millet..	843.70	.14	14,241.39	.16	16.88
Oats/'Aja'.....	1,289.18	.22	14,055.56	.16	10.90
Rice.....	-	-	-	-	-
Pulses.....	75,592.28	12.83	914,253.91	10.41	
Horse beans....	25,334.29	4.30	366,073.75	4.17	14.45
Field peas.....	8,045.44	1.37	87,980.55	1.00	10.94
Haricot beans..	488.10	.08	2,093.30	.02	4.29
Chick-peas....	27,062.01	4.59	289,657.15	3.30	10.70
Lentils.....	2,152.37	.37	14,129.17	.16	6.56
Vetch.....	11,096.45	1.88	146,042.76	1.66	13.16
Soya beans.....	17.99	-	35.98	-	2.00
Fenugreek.....	1,395.62	.24	8,241.25	.09	5.91
Gibto.....	-	-	-	-	-
Oilseeds.....	34,969.70	5.94	160,302.29	1.83	
Neug.....	21,283.55	3.61	78,232.37	.89	3.68
Linseed.....	11,894.15	2.02	65,758.36	.75	5.53
Groundnuts....	*	*	-	-	-
Safflower.....	125.32	.02	1,143.02	.01	9.12
Sesame.....	*	*	*	*	*
Rapeseed.....	1,658.49	.28	15,167.62	.17	9.15
Vegetables.....	4,217.33	.72	149,036.54	1.70	
Lettuce.....	*	*	*	*	*
Head Cabbage...	30.94	-	3,264.87	.04	105.52
Ethiopian Cabbage.....	343.48	.06	33,592.35	.38	97.80
Tomatoes.....	205.98	.04	30,897.66	.35	150.00
Green peppers..	352.92	.06	34,682.88	.40	98.27
Red peppers....	3,267.37	.55	44,866.88	.51	13.73
Swiss chard....	5.90	-	708.55	-	120.09
Root Crops.....	2,279.31	.39	272,641.76	3.11	
Beetroot.....	30.37	-	3,943.25	.04	129.84
Carrot.....	28.78	-	3,510.93	.04	121.99
Onion.....	575.21	.10	77,536.57	.88	134.80
Potatoes.....	1,159.65	.20	121,251.47	1.38	104.56
Garlic.....	387.02	.07	56,799.96	.65	146.76
Taro/'Godere'	11.42	-	913.68	.01	80.01
Sweet potatoes.	86.86	.01	8,685.91	.10	100.00

Table 5.6- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

North Shewa(Oromia) Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	297,277.58	100.00	2,859,049.09	100.00	
Cereals.....	236,188.61	79.45	2,302,390.86	80.53	
Teff.....	86,394.35	29.06	704,319.64	24.63	8.15
Barley.....	58,184.39	19.57	540,930.81	18.92	9.30
Wheat.....	39,712.70	13.36	417,864.32	14.62	10.52
Maize.....	5,328.45	1.79	79,886.69	2.79	14.99
Sorghum.....	45,480.27	15.30	551,401.49	19.29	12.12
Finger millet..	83.06	.03	773.63	.03	9.31
Oats/'Aja'.....	1,005.40	.34	7,214.29	.25	7.18
Rice.....	-	-	-	-	-
Pulses.....	52,171.59	17.55	472,328.42	16.52	
Horse beans....	27,797.48	9.35	261,943.92	9.16	9.42
Field peas.....	5,891.26	1.98	37,506.29	1.31	6.37
Haricot beans..	55.13	.02	313.24	.01	5.68
Chick-peas....	6,414.51	2.16	65,431.42	2.29	10.20
Lentils.....	6,232.37	2.10	42,176.35	1.48	6.77
Vetch.....	5,433.47	1.83	63,057.24	2.21	11.61
Soya beans.....	*	*	*	*	*
Fenugreek.....	319.49	.11	1,646.30	.06	5.15
Gibto.....	-	-	-	-	-
Oilseeds.....	8,303.30	2.79	29,797.20	1.04	
Neug.....	3,955.35	1.33	10,621.36	.37	2.69
Linseed.....	3,985.09	1.34	16,488.75	.58	4.14
Groundnuts...	*	*	-	-	-
Sufflower.....	294.48	.10	2,326.66	.08	7.90
Sesame.....	*	*	*	*	*
Rapeseed.....	31.98	.01	*	*	*
Vegetables.....	338.91	.11	16,269.10	.57	
Lettuce.....	*	*	*	*	*
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	30.30	.01	2,997.97	.10	98.94
Tomatoes.....	*	*	*	*	*
Green peppers..	66.45	.02	6,645.07	.23	100.00
Red peppers....	214.41	.07	3,077.32	.11	14.35
Swiss chard....	*	*	*	*	*
Root Crops.....	275.17	.09	38,263.52	1.34	
Beetroot.....	2.94	-	376.37	.01	128.02
Carrot.....	*	*	*	*	*
Onion.....	82.26	.03	11,024.96	.39	134.03
Potatoes.....	14.16	-	1,487.28	.05	105.03
Garlic.....	156.64	.05	23,060.48	.81	147.22
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	*	*	*	*	*

Table 5.7- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

East Shewa Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	391,987.29	100.00	6,602,100.51	100.00	
Cereals.....	327,618.02	83.58	5,192,441.64	78.65	
Teff.....	111,197.25	28.37	965,709.60	14.63	8.68
Barley.....	12,506.33	3.19	182,159.21	2.76	14.57
Wheat.....	57,036.92	14.55	899,347.16	13.62	15.77
Maize.....	134,050.33	34.20	2,988,738.44	45.27	22.30
Sorghum.....	11,592.19	2.96	144,240.24	2.18	12.44
Finger millet..	1,039.07	.27	9,705.03	.15	9.34
Oats/'Aja'.....	195.93	.05	2,541.97	.04	12.97
Rice.....	-	-	-	-	-
Pulses.....	53,951.72	13.76	540,885.02	8.19	
Horse beans....	6,982.12	1.78	76,798.10	1.16	11.00
Field peas.....	5,482.23	1.40	46,675.45	.71	8.51
Haricot beans..	21,347.29	5.45	198,696.99	3.01	9.31
Chick-peas....	13,669.60	3.49	163,588.46	2.48	11.97
Lentils.....	2,887.00	.74	18,936.67	.29	6.56
Vetch.....	2,857.17	.73	31,880.60	.48	11.16
Soya beans.....	*	*	-	-	-
Fenugreek.....	724.91	.18	4,308.76	.07	5.94
Gibto.....	-	-	-	-	-
Oilseeds.....	1,004.23	.26	5,859.07	.09	
Neug.....	7.41	-	8.87	-	1.20
Linseed.....	105.37	.03	421.10	-	4.00
Groundnuts... ..	*	*	-	-	-
Sufflower.....	52.84	.01	316.24	-	5.98
Sesame.....	688.57	.18	4,231.86	.06	6.15
Rapeseed.....	149.49	.04	880.99	.01	5.89
Vegetables.....	3,225.20	.82	196,963.95	2.98	
Lettuce.....	*	*	-	-	-
Head Cabbage... ..	62.01	.02	7,440.61	.11	119.99
Ethiopian Cabbage.....	622.59	.16	62,165.62	.94	99.85
Tomatoes.....	325.05	.08	48,753.67	.74	149.99
Green peppers..	335.12	.09	32,849.34	.50	98.02
Red peppers....	1,874.75	.48	45,649.23	.69	24.35
Swiss chard....	.99	-	105.47	-	106.54
Root Crops.....	6,188.12	1.58	665,950.84	10.09	
Beetroot.....	51.62	.01	6,710.35	.10	130.00
Carrot.....	63.23	.02	7,714.36	.12	122.00
Onion.....	434.47	.11	58,346.73	.88	134.29
Potatoes.....	5,547.56	1.42	582,493.60	8.82	105.00
Garlic.....	70.99	.02	8,732.99	.13	123.02
Taro/'Godere'	*	*	-	-	-
Sweet potatoes.	19.53	-	1,952.82	.03	99.99

Table 5.8- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Arsi Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	544,820.02	100.00	9,173,210.26	100.00	
Cereals.....	450,477.84	82.68	7,650,932.16	83.41	
Teff.....	57,330.06	10.52	530,316.97	5.78	9.25
Barley.....	110,316.36	20.25	1,755,630.34	19.14	15.91
Wheat.....	188,077.15	34.52	3,319,378.34	36.19	17.65
Maize.....	66,682.03	12.24	1,495,172.25	16.30	22.42
Sorghum.....	24,330.13	4.47	502,063.35	5.47	20.64
Finger millet..	263.98	.05	2,391.59	.03	9.06
Oats/'Aja'.....	3,478.13	.64	45,979.31	.50	13.22
Rice.....	-	-	-	-	-
Pulses.....	49,403.94	9.07	632,639.40	6.90	
Horse beans....	27,373.74	5.02	413,839.09	4.51	15.12
Field peas.....	11,369.88	2.09	115,484.37	1.26	10.16
Haricot beans..	7,092.76	1.30	73,289.90	.80	10.33
Chick-peas.....	949.55	.17	8,962.87	.10	9.44
Lentils.....	555.28	.10	2,855.65	.03	5.14
Vetch.....	1,492.55	.27	13,082.07	.14	8.76
Soya beans.....	39.60	-	831.69	-	21.00
Fenugreek.....	530.57	.10	4,293.77	.05	8.09
Gibto.....	-	-	-	-	-
Oilseeds.....	37,283.41	6.84	223,736.69	2.44	
Neug.....	4,375.73	.80	23,412.30	.26	5.35
Linseed.....	31,920.54	5.86	192,307.21	2.10	6.02
Groundnuts...	*	*	*	*	*
Sufflower.....	89.21	.02	609.52	-	6.83
Sesame.....	40.54	-	299.79	-	7.39
Rapeseed.....	815.19	.15	6,625.17	.07	8.13
Vegetables.....	3,191.13	.59	119,084.84	1.30	
Lettuce.....	*	*	*	*	*
Head Cabbage...	36.53	-	*	*	*
Ethiopian Cabbage.....	*	*	*	*	*
Tomatoes.....	124.47	.02	18,669.98	.20	150.00
Green peppers..	140.25	.03	12,726.54	.14	90.74
Red peppers.....	2,238.48	.41	18,606.96	.20	8.31
Swiss chard....	*	*	-	-	-
Root Crops.....	4,463.69	.82	546,817.17	5.96	
Beetroot.....	52.56	-	6,608.35	.07	125.73
Carrot.....	60.07	.01	7,328.45	.08	122.00
Onion.....	2,018.08	.37	271,804.23	2.96	134.68
Potatoes.....	1,617.45	.30	169,816.62	1.85	104.99
Garlic.....	469.79	.09	69,620.37	.76	148.19
Taro/'Godere'	1.34	-	-	-	-
Sweet potatoes.	244.41	.04	21,639.16	.24	88.54

Table 5.9- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

West Harerge Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	173,794.38	100.00	2,913,444.38	100.00	
Cereals.....	153,960.87	88.59	2,277,360.59	78.17	
Teff.....	9,607.10	5.53	111,294.24	3.82	11.58
Barley.....	4,935.92	2.84	48,019.09	1.65	9.73
Wheat.....	4,574.81	2.63	52,483.06	1.80	11.47
Maize.....	41,567.27	23.92	697,853.82	23.95	16.79
Sorghum.....	91,615.16	52.71	1,351,394.02	46.38	14.75
Finger millet..	1,075.19	.62	10,971.54	.38	10.20
Oats/'Aja'.....	580.10	.33	5,331.60	.18	9.19
Rice.....	5.32	-	*	*	*
Pulses.....	12,440.38	7.16	146,426.18	5.03	
Horse beans....	2,644.14	1.52	33,387.46	1.15	12.63
Field peas.....	425.43	.24	3,088.50	.11	7.26
Haricot beans..	7,396.95	4.26	89,205.31	3.06	12.06
Chick-peas....	1,027.99	.59	15,897.54	.55	15.46
Lentils.....	589.20	.34	3,065.08	.11	5.20
Vetch.....	32.18	.02	*	*	*
Soya beans....	*	*	-	-	-
Fenugreek.....	323.92	.19	1,521.60	.05	4.70
Gibto.....	-	-	-	-	-
Oilseeds.....	2,123.06	1.22	13,592.88	.47	
Neug.....	14.47	-	11.89	-	.82
Linseed.....	638.95	.37	2,555.37	.09	4.00
Groundnuts...	763.96	.44	6,687.95	.23	8.75
Sufflower.....	25.98	.01	199.72	-	7.69
Sesame.....	655.04	.38	4,087.21	.14	6.24
Rapeseed.....	24.66	.01	50.74	-	2.06
Vegetables.....	1,620.69	.93	59,055.51	2.03	
Lettuce.....	-	-	-	-	-
Head Cabbage...	*	*	-	-	-
Ethiopian Cabbage.....	4.89	-	489.00	.02	100.00
Tomatoes.....	*	*	*	*	*
Green peppers..	88.91	.05	8,456.73	.29	95.12
Red peppers....	1,321.20	.76	20,259.25	.70	15.33
Swiss chard....	*	*	*	*	*
Root Crops.....	3,649.38	2.10	417,009.22	14.31	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	-	-	-
Onion.....	1,434.15	.83	193,609.96	6.65	135.00
Potatoes.....	112.43	.06	11,784.90	.40	104.82
Garlic.....	27.93	.02	4,001.41	.14	143.27
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	2,065.58	1.19	206,557.65	7.09	100.00

Table 5.10- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

East Harerge Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	153,599.15	100.00	2,753,102.89	100.00	
Cereals.....	130,805.84	85.16	1,883,035.45	68.40	
Teff.....	2,365.96	1.54	20,348.36	.74	8.60
Barley.....	2,709.20	1.76	35,150.84	1.28	12.97
Wheat.....	10,646.82	6.93	156,033.09	5.67	14.66
Maize.....	36,039.31	23.46	709,498.58	25.77	19.69
Sorghum.....	78,391.56	51.04	954,362.97	34.67	12.17
Finger millet..	16.35	.01	*	*	*
Oats/'Aja'.....	614.27	.40	7,550.29	.27	12.29
Rice.....	22.37	.01	-	-	-
Pulses.....	7,243.16	4.72	88,053.25	3.20	
Horse beans....	2,568.08	1.67	36,307.74	1.32	14.14
Field peas.....	593.20	.39	6,406.10	.23	10.80
Haricot beans..	3,409.33	2.22	40,508.22	1.47	11.88
Chick-peas....	144.90	.09	518.99	.02	3.58
Lentils.....	197.19	.13	1,118.98	.04	5.67
Vetch.....	*	*	*	*	*
Soya beans.....	-	-	-	-	-
Fenugreek.....	306.56	.20	2,772.09	.10	9.04
Gibto.....	-	-	-	-	-
Oilseeds.....	8,564.78	5.58	60,743.74	2.21	
Neug.....	-	-	-	-	-
Linseed.....	408.01	.27	2,668.23	.10	6.54
Groundnuts...	7,931.17	5.16	56,511.74	2.05	7.13
Sufflower.....	*	*	*	*	*
Sesame.....	219.00	.14	1,545.01	.06	7.05
Rapeseed.....	5.83	-	10.22	-	1.75
Vegetables.....	412.51	.27	29,158.43	1.06	
Lettuce.....	71.44	.05	7,143.93	.26	100.00
Head Cabbage...	60.85	.04	7,208.10	.26	118.46
Ethiopian Cabbage.....	10.07	-	*	*	*
Tomatoes.....	37.87	.02	5,597.33	.20	147.80
Green peppers..	78.39	.05	7,174.19	.26	91.52
Red peppers....	153.84	.10	1,072.20	.04	6.97
Swiss chard....	*	*	*	*	*
Root Crops.....	6,572.86	4.28	692,112.01	25.14	
Beetroot.....	40.28	.03	5,217.03	.19	129.52
Carrot.....	33.95	.02	4,141.64	.15	121.99
Onion.....	525.42	.34	70,931.26	2.58	135.00
Potatoes.....	2,024.17	1.32	212,537.95	7.72	105.00
Garlic.....	140.26	.09	20,986.65	.76	149.63
Taro/'Godere'	-	-	-	-	-
Sweet potatoes..	3,808.79	2.48	378,297.48	13.74	99.32

Table 5.11- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Bale Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	251,877.74	100.00	3,520,809.29	100.00	
Cereals.....	212,789.36	84.48	3,023,014.60	85.86	
Teff.....	31,957.47	12.69	213,977.48	6.08	6.70
Barley.....	48,076.32	19.09	669,074.88	19.00	13.92
Wheat.....	92,284.31	36.64	1,546,668.01	43.93	16.76
Maize.....	19,069.40	7.57	375,380.98	10.66	19.68
Sorghum.....	11,003.86	4.37	76,688.66	2.18	6.97
Finger millet..	187.46	.07	1,399.74	.04	7.47
Oats/'Aja'.....	10,210.55	4.05	139,824.85	3.97	13.69
Rice.....	-	-	-	-	-
Pulses.....	18,881.74	7.50	152,715.94	4.34	
Horse beans....	5,126.99	2.04	61,254.60	1.74	11.95
Field peas.....	6,615.04	2.63	47,073.69	1.34	7.12
Haricot beans..	1,618.50	.64	10,137.72	.29	6.26
Chick-peas....	1,177.45	.47	6,607.56	.19	5.61
Lentils.....	1,078.44	.43	4,206.25	.12	3.90
Vetch.....	841.07	.33	8,215.08	.23	9.77
Soya beans....	45.24	.02	-	-	-
Fenugreek.....	2,379.02	.94	15,221.04	.43	6.40
Gibto.....	-	-	-	-	-
Oilseeds.....	16,238.74	6.45	98,630.31	2.80	
Neug.....	306.38	.12	1,034.21	.03	3.38
Linseed.....	15,877.46	6.30	97,404.93	2.77	6.13
Groundnuts...	*	*	*	*	*
Sufflower.....	*	*	-	-	-
Sesame.....	*	*	*	*	*
Rapeseed.....	45.97	.02	174.20	-	3.79
Vegetables.....	2,284.40	.91	51,785.97	1.47	
Lettuce.....	.51	-	51.41	-	100.80
Head Cabbage..	21.55	-	2,586.38	.07	120.02
Ethiopian Cabbage.....	292.77	.12	29,277.17	.83	100.00
Tomatoes.....	5.26	-	789.74	.02	150.14
Green peppers..	67.23	.03	6,073.02	.17	90.33
Red peppers....	1,896.96	.75	12,996.24	.37	6.85
Swiss chard....	*	*	*	*	*
Root Crops.....	1,683.49	.67	194,662.48	5.53	
Beetroot.....	*	*	*	*	*
Carrot.....	21.81	-	2,655.74	.08	121.77
Onion.....	577.49	.23	77,960.68	2.21	135.00
Potatoes.....	650.49	.26	67,744.97	1.92	104.14
Garlic.....	49.56	.02	7,301.87	.21	147.33
Taro/'Godere'	*	*	*	*	*
Sweet potatoes.	349.57	.14	34,855.00	.99	99.71

Table 5.12- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Borena Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	96,137.84	100.00	1,279,325.30	100.00	
Cereals.....	76,175.50	79.24	886,209.50	69.27	
Teff.....	10,934.48	11.37	74,334.92	5.81	6.80
Barley.....	22,195.80	23.09	231,365.04	18.08	10.42
Wheat.....	12,928.02	13.45	140,683.86	11.00	10.88
Maize.....	26,641.71	27.71	433,125.59	33.86	16.26
Sorghum.....	3,455.98	3.59	6,530.35	.51	1.89
Finger millet.....	*	*	-	-	-
Oats/'Aja'.....	*	*	*	*	*
Rice.....	-	-	-	-	-
Pulses.....	16,928.86	17.61	101,627.28	7.94	
Horse beans.....	2,793.70	2.91	29,473.52	2.30	10.55
Field peas.....	4,746.96	4.94	47,403.85	3.71	9.99
Haricot beans.....	8,496.43	8.84	22,097.18	1.73	2.60
Chick-peas.....	661.80	.69	2,160.22	.17	3.26
Lentils.....	53.41	.06	19.17	-	.36
Vetch.....	-	-	-	-	-
Soya beans.....	59.76	.06	-	-	-
Fenugreek.....	*	*	*	*	*
Gibto.....	-	-	-	-	-
Oilseeds.....	141.12	.15	367.19	.03	
Neug.....	.47	-	-	-	-
Linseed.....	17.55	.02	61.25	-	3.49
Groundnuts.....	*	*	-	-	-
Sunflower.....	*	*	-	-	-
Sesame.....	-	-	-	-	-
Rapeseed.....	100.93	.11	305.94	.02	3.03
Vegetables.....	1,814.46	1.89	172,457.56	13.48	
Lettuce.....	*	*	-	-	-
Head Cabbage.....	*	*	-	-	-
Ethiopian Cabbage.....	1,486.13	1.55	148,612.99	11.62	100.00
Tomatoes.....	*	*	*	*	*
Green peppers.....	183.33	.19	17,714.82	1.38	96.63
Red peppers.....	111.87	.12	1,260.73	.10	11.27
Swiss chard.....	*	*	-	-	-
Root Crops.....	1,077.90	1.12	118,663.77	9.28	
Beetroot.....	*	*	-	-	-
Carrot.....	*	*	*	*	*
Onion.....	304.33	.32	41,085.03	3.21	135.00
Potatoes.....	161.13	.17	16,911.09	1.32	104.95
Garlic.....	18.92	.02	2,838.01	.22	150.00
Taro/'Godere'.....	49.86	.05	3,989.07	.31	80.01
Sweet potatoes.....	542.24	.56	53,669.04	4.20	98.98

Table 6- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Somali Region

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	59,668.44	100.00	821,907.26	100.00	
Cereals.....	57,040.60	95.60	714,362.05	86.92	
Teff.....	*	*	*	*	*
Barley.....	6,511.81	10.91	57,721.28	7.02	8.86
Wheat.....	8,353.80	14.00	109,973.45	13.38	13.16
Maize.....	20,846.55	34.94	263,447.26	32.05	12.64
Sorghum.....	20,824.36	34.90	279,054.26	33.95	13.40
Finger millet..	*	*	-	-	-
Oats/'Aja'.....	432.63	.73	3,954.60	.48	9.14
Rice.....	-	-	-	-	-
Pulses.....	1,346.86	2.26	6,283.60	.76	
Horse beans....	*	*	*	*	*
Field peas.....	86.04	.14	*	*	*
Haricot beans..	678.33	1.14	2,143.11	.26	3.16
Chick-peas....	406.93	.68	*	*	*
Lentils.....	83.71	.14	862.73	.11	10.31
Vetch.....	*	*	-	-	-
Soya beans.....	*	*	-	-	-
Fenugreek.....	56.86	.10	189.84	.02	3.34
Gibto.....	-	-	-	-	-
Oilseeds.....	493.38	.83	2,372.42	.29	
Neug.....	*	*	-	-	-
Linseed.....	445.06	.75	1,409.81	.17	3.17
Groundnuts....	*	*	*	*	*
Sufflower.....	-	-	-	-	-
Sesame.....	*	*	*	*	*
Rapeseed.....	-	-	-	-	-
Vegetables.....	90.56	.15	11,010.63	1.34	
Lettuce.....	*	*	-	-	-
Head Cabbage..	*	*	*	*	*
Ethiopian Cabbage.....	*	*	*	*	*
Tomatoes.....	60.42	.10	9,063.38	1.10	150.01
Green peppers..	13.12	.02	*	*	*
Red peppers....	*	*	-	-	-
Swiss chard....	-	-	-	-	-
Root Crops.....	697.04	1.17	87,878.57	10.69	
Beetroot.....	*	*	*	*	*
Carrot.....	-	-	-	-	-
Onion.....	225.76	.38	26,966.71	3.28	119.45
Potatoes.....	44.23	.07	4,644.66	.57	105.01
Garlic.....	268.97	.45	40,324.83	4.91	149.92
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	153.55	.26	15,354.78	1.87	100.00

Table 6.1- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Shinele Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	847.79	100.00	14,031.14	100.00	
Cereals.....	813.04	95.90	10,274.61	73.23	
Teff.....	-	-	-	-	-
Barley.....	-	-	-	-	-
Wheat.....	-	-	-	-	-
Maize.....	61.56	7.26	787.84	5.61	12.80
Sorghum.....	751.48	88.64	9,486.78	67.61	12.62
Finger millet..	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	-	-	-	-	-
Horse beans....	-	-	-	-	-
Field peas.....	-	-	-	-	-
Haricot beans..	-	-	-	-	-
Chick-peas....	-	-	-	-	-
Lentils.....	-	-	-	-	-
Vetch.....	-	-	-	-	-
Soya beans.....	-	-	-	-	-
Fenugreek.....	-	-	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	*	*	-	-	-
Neug.....	-	-	-	-	-
Linseed.....	-	-	-	-	-
Groundnuts...	-	-	-	-	-
Sufflower.....	-	-	-	-	-
Sesame.....	*	*	-	-	-
Rapeseed.....	-	-	-	-	-
Vegetables.....	13.27	1.57	1,762.91	12.56	
Lettuce.....	-	-	-	-	-
Head Cabbage...	-	-	-	-	-
Ethiopian Cabbage.....	*	*	-	-	-
Tomatoes.....	9.15	1.08	1,371.96	9.78	149.94
Green peppers..	3.91	.46	390.95	2.79	99.99
Red peppers....	-	-	-	-	-
Swiss chard....	-	-	-	-	-
Root Crops.....	19.82	2.34	1,993.62	14.21	
Beetroot.....	-	-	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	*	*	*	*	*
Potatoes.....	-	-	-	-	-
Garlic.....	*	*	-	-	-
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	18.97	2.24	1,896.87	13.52	99.99

Table 6.2- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Jijiga Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	55,219.68	100.00	784,581.31	100.00	
Cereals.....	53,149.93	96.25	685,298.58	87.35	
Teff.....	*	*	*	*	*
Barley.....	6,507.67	11.79	57,721.28	7.36	8.87
Wheat.....	8,353.80	15.13	109,973.45	14.02	13.16
Maize.....	18,043.41	32.68	247,546.35	31.55	13.72
Sorghum.....	19,740.98	35.75	265,891.71	33.89	13.47
Finger millet..	*	*	-	-	-
Oats/'Aja'.....	432.63	.78	3,954.60	.50	9.14
Rice.....	-	-	-	-	-
Pulses.....	889.92	1.61	5,358.51	.68	
Horse beans....	*	*	*	*	*
Field peas.....	*	*	*	*	*
Haricot beans..	233.53	.42	1,218.03	.16	5.22
Chick-peas....	402.13	.73	*	*	*
Lentils.....	79.79	.14	862.73	.11	10.81
Vetch.....	*	*	-	-	-
Soya beans.....	*	*	-	-	-
Fenugreek.....	56.86	.10	189.84	.02	3.34
Gibto.....	-	-	-	-	-
Oilseeds.....	478.19	.87	1,982.75	.25	
Neug.....	*	*	-	-	-
Linseed.....	445.06	.81	1,409.81	.18	3.17
Groundnuts...	*	*	*	*	*
Sufflower.....	-	-	-	-	-
Sesame.....	-	-	-	-	-
Rapeseed.....	-	-	-	-	-
Vegetables.....	54.01	.10	*	*	
Lettuce.....	*	*	-	-	-
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	*	*	*	*	*
Tomatoes.....	*	*	*	*	*
Green peppers..	*	*	*	*	*
Red peppers.....	*	*	-	-	-
Swiss chard....	-	-	-	-	-
Root Crops.....	647.63	1.17	85,527.85	10.90	
Beetroot.....	*	*	*	*	*
Carrot.....	-	-	-	-	-
Onion.....	199.04	.36	26,869.97	3.42	135.00
Potatoes.....	44.23	.08	4,644.66	.59	105.01
Garlic.....	268.83	.49	40,324.83	5.14	150.00
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	*	*	*	*	*

Table 6.3- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Liben Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	3,600.97	100.00	23,294.81	100.00	
Cereals.....	3,077.63	85.47	18,788.86	80.66	
Teff.....	-	-	-	-	-
Barley.....	*	*	-	-	-
Wheat.....	-	-	-	-	-
Maize.....	2,741.58	76.13	15,113.08	64.88	5.51
Sorghum.....	331.90	9.22	3,675.78	15.78	11.07
Finger millet..	-	-	-	-	-
Oats/'Aja'.....	-	-	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	456.95	12.69	925.08	3.97	
Horse beans....	*	*	-	-	-
Field peas.....	2.42	.07	-	-	-
Haricot beans..	444.79	12.35	925.08	3.97	2.08
Chick-peas....	*	*	-	-	-
Lentils.....	*	*	-	-	-
Vetch.....	-	-	-	-	-
Soya beans.....	-	-	-	-	-
Fenugreek.....	-	-	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	*	*	*	*	
Neug.....	*	*	-	-	-
Linseed.....	-	-	-	-	-
Groundnuts...	*	*	-	-	-
Sufflower.....	-	-	-	-	-
Sesame.....	*	*	*	*	*
Rapeseed.....	-	-	-	-	-
Vegetables.....	*	*	*	*	
Lettuce.....	-	-	-	-	-
Head Cabbage...	*	*	-	-	-
Ethiopian Cabbage.....	*	*	*	*	*
Tomatoes.....	*	*	*	*	*
Green peppers..	*	*	-	-	-
Red peppers.....	-	-	-	-	-
Swiss chard....	-	-	-	-	-
Root Crops.....	*	*	*	*	
Beetroot.....	-	-	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	*	*	-	-	-
Potatoes.....	-	-	-	-	-
Garlic.....	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	*	*	*	*	*

Table 7- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Benishangul-Gumuz Region

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	137,153.24	100.00	1,632,898.50	100.00	
Cereals.....	103,942.27	75.79	1,390,289.62	85.14	
Teff.....	10,736.57	7.83	75,929.22	4.65	7.07
Barley.....	1,047.11	.76	10,444.17	.64	9.97
Wheat.....	891.15	.65	9,706.76	.59	10.89
Maize.....	20,482.45	14.93	412,525.16	25.26	20.14
Sorghum.....	52,375.42	38.19	670,390.38	41.06	12.80
Finger millet..	17,279.16	12.60	198,786.33	12.17	11.50
Oats/'Aja'.....	27.60	.02	213.81	.01	7.75
Rice.....	1,102.82	.80	12,293.79	.75	11.15
Pulses.....	6,682.94	4.87	60,436.73	3.70	
Horse beans....	583.44	.43	5,636.78	.35	9.66
Field peas.....	719.30	.52	5,047.73	.31	7.02
Haricot beans..	3,778.85	2.76	34,425.43	2.11	9.11
Chick-peas....	368.07	.27	2,268.20	.14	6.16
Lentils.....	41.59	.03	194.89	.01	4.69
Vetch.....	20.06	.01	22.97	-	1.15
Soya beans.....	1,131.94	.83	12,424.30	.76	10.98
Fenugreek.....	*	*	*	*	*
Gibto.....	34.60	.03	394.73	.02	11.41
Oilseeds.....	25,244.10	18.41	120,387.55	7.37	
Neug.....	13,432.58	9.79	37,954.42	2.32	2.83
Linseed.....	200.29	.15	455.08	.03	2.27
Groundnuts...	2,388.46	1.74	22,787.00	1.40	9.54
Sufflower.....	94.14	.07	634.51	.04	6.74
Sesame.....	9,028.15	6.58	57,718.86	3.53	6.39
Rapeseed.....	100.47	.07	837.69	.05	8.34
Vegetables.....	882.86	.64	21,652.48	1.33	
Lettuce.....	*	*	*	*	*
Head Cabbage...	2.19	-	261.86	.02	119.57
Ethiopian Cabbage.....	*	*	*	*	*
Tomatoes.....	5.43	-	787.68	.05	145.06
Green peppers..	25.27	.02	2,437.22	.15	96.45
Red peppers....	815.93	.59	14,761.12	.90	18.09
Swiss chard....	*	*	*	*	*
Root Crops.....	401.07	.29	40,132.11	2.46	
Beetroot.....	.36	-	46.63	-	129.53
Carrot.....	1.20	-	145.88	-	121.57
Onion.....	18.57	.01	2,487.18	.15	133.94
Potatoes.....	102.34	.07	8,946.96	.55	87.42
Garlic.....	21.46	.02	3,180.72	.19	148.22
Taro/'Godere'	9.36	-	748.45	.05	79.96
Sweet potatoes.	247.79	.18	24,576.30	1.51	99.18

Table 7.1- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Metekel Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	64,008.79	100.00	770,465.60	100.00	
Cereals.....	48,365.88	75.56	652,573.31	84.70	
Teff.....	6,649.39	10.39	59,080.82	7.67	8.89
Barley.....	977.40	1.53	9,991.62	1.30	10.22
Wheat.....	739.58	1.16	8,380.91	1.09	11.33
Maize.....	5,338.65	8.34	130,539.64	16.94	24.45
Sorghum.....	18,158.19	28.37	251,139.59	32.60	13.83
Finger millet.....	15,379.63	24.03	180,970.93	23.49	11.77
Oats/'Aja'.....	20.23	.03	176.01	.02	8.70
Rice.....	1,102.82	1.72	12,293.79	1.60	11.15
Pulses.....	4,333.65	6.77	43,689.53	5.67	
Horse beans.....	515.98	.81	5,292.20	.69	10.26
Field peas.....	709.40	1.11	5,021.72	.65	7.08
Haricot beans.....	2,101.84	3.28	20,570.14	2.67	9.79
Chick-peas.....	201.59	.31	1,814.13	.24	9.00
Lentils.....	38.54	.06	194.89	.03	5.06
Vetch.....	-	-	-	-	-
Soya beans.....	736.99	1.15	10,410.14	1.35	14.13
Fenugreek.....	*	*	*	*	*
Gibto.....	25.00	.04	364.95	.05	14.60
Oilseeds.....	10,818.95	16.90	53,971.85	7.01	
Neug.....	5,874.04	9.18	16,338.49	2.12	2.78
Linseed.....	93.22	.15	261.43	.03	2.80
Groundnuts.....	1,916.83	2.99	20,151.91	2.62	10.51
Safflower.....	70.79	.11	452.00	.06	6.39
Sesame.....	2,791.77	4.36	16,135.59	2.09	5.78
Rapeseed.....	72.29	.11	632.42	.08	8.75
Vegetables.....	379.27	.59	7,987.56	1.04	
Lettuce.....	*	*	-	-	-
Head Cabbage.....	*	*	-	-	-
Ethiopian Cabbage.....	5.12	-	511.76	.07	99.95
Tomatoes.....	*	*	*	*	*
Green peppers.....	10.32	.02	943.82	.12	91.46
Red peppers.....	362.69	.57	6,360.51	.83	17.54
Swiss chard.....	-	-	-	-	-
Root Crops.....	111.04	.17	12,243.36	1.59	
Beetroot.....	*	*	-	-	-
Carrot.....	*	*	*	*	*
Onion.....	3.46	-	466.69	.06	134.88
Potatoes.....	65.02	.10	6,826.99	.89	105.00
Garlic.....	16.55	.03	2,474.23	.32	149.50
Taro/'Godere'.....	6.31	-	504.74	.07	79.99
Sweet potatoes.....	19.70	.03	1,969.74	.26	99.99

Table 7.2- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Asosa Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	52,627.71	100.00	520,403.36	100.00	
Cereals.....	39,455.76	74.97	436,100.73	83.80	
Teff.....	3,317.12	6.30	12,095.06	2.32	3.65
Barley.....	68.95	.13	451.33	.09	6.55
Wheat.....	151.57	.29	1,325.85	.25	8.75
Maize.....	9,854.52	18.73	157,814.93	30.33	16.01
Sorghum.....	25,010.71	47.52	255,467.46	49.09	10.21
Finger millet..	1,048.50	1.99	8,937.33	1.72	8.52
Oats/'Aja'	4.39	-	8.77	-	2.00
Rice.....	-	-	-	-	-
Pulses.....	1,943.55	3.69	12,617.64	2.42	
Horse beans....	65.54	.12	338.05	.07	5.16
Field peas.....	9.44	.02	25.37	-	2.69
Haricot beans..	1,288.26	2.45	9,853.27	1.89	7.65
Chick-peas....	152.49	.29	333.71	.06	2.19
Lentils.....	*	*	-	-	-
Vetch.....	20.06	.04	22.97	-	1.15
Soya beans.....	394.33	.75	2,014.16	.39	5.11
Fenugreek.....	*	*	*	*	*
Gibto.....	*	*	*	*	*
Oilseeds.....	10,596.73	20.14	38,561.39	7.41	
Neug.....	7,048.46	13.39	19,491.95	3.75	2.77
Linseed.....	98.86	.19	160.98	.03	1.63
Groundnuts...	438.64	.83	2,436.97	.47	5.56
Safflower.....	23.21	.04	*	*	*
Sesame.....	2,959.70	5.62	16,085.66	3.09	5.43
Rapeseed.....	27.85	.05	203.32	.04	7.30
Vegetables.....	424.02	.81	11,633.28	2.24	
Lettuce.....	*	*	*	*	*
Head Cabbage...	1.99	-	239.34	.05	120.27
Ethiopian Cabbage.....	*	*	*	*	*
Tomatoes.....	4.12	-	591.02	.11	143.45
Green peppers..	5.33	.01	530.29	.10	99.49
Red peppers....	384.07	.73	7,418.59	1.43	19.32
Swiss chard....	*	*	*	*	*
Root Crops.....	207.65	.39	21,490.32	4.13	
Beetroot.....	.28	-	36.61	-	130.75
Carrot.....	.97	-	118.53	.02	122.20
Onion.....	14.33	.03	1,914.78	.37	133.62
Potatoes.....	20.19	.04	2,119.97	.41	105.00
Garlic.....	3.39	-	494.06	.09	145.74
Taro/'Godere'	*	*	*	*	*
Sweet potatoes..	166.36	.32	16,635.71	3.20	100.00

Table 7.3- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Kemashi Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	20,516.74	100.00	342,029.54	100.00	
Cereals.....	16,120.63	78.57	301,615.59	88.18	
Teff.....	770.05	3.75	4,753.34	1.39	6.17
Barley.....	*	*	*	*	*
Wheat.....	-	-	-	-	-
Maize.....	5,289.28	25.78	124,170.60	36.30	23.48
Sorghum.....	9,206.53	44.87	163,783.34	47.89	17.79
Finger millet..	851.04	4.15	8,878.07	2.60	10.43
Oats/'Aja'.....	2.98	.01	29.03	-	9.74
Rice.....	-	-	-	-	-
Pulses.....	405.73	1.98	4,129.57	1.21	
Horse beans....	*	*	*	*	*
Field peas.....	*	*	*	*	*
Haricot beans..	388.74	1.89	4,002.03	1.17	10.29
Chick-peas.....	14.00	.07	120.37	.04	8.60
Lentils.....	-	-	-	-	-
Vetch.....	-	-	-	-	-
Soya beans.....	*	*	-	-	-
Fenugreek.....	-	-	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	3,828.42	18.66	27,854.31	8.14	
Neug.....	510.08	2.49	2,123.98	.62	4.16
Linseed.....	8.20	.04	32.66	-	3.98
Groundnuts...	32.99	.16	198.11	.06	6.01
Sufflower.....	*	*	-	-	-
Sesame.....	3,276.68	15.97	25,497.60	7.45	7.78
Rapeseed.....	*	*	*	*	*
Vegetables.....	79.57	.39	2,031.65	.59	
Lettuce.....	-	-	-	-	-
Head Cabbage...	.19	-	22.53	-	118.58
Ethiopian Cabbage.....	.39	-	38.78	.01	99.44
Tomatoes.....	*	*	*	*	*
Green peppers..	9.63	.05	963.12	.28	100.01
Red peppers....	69.17	.34	982.03	.29	14.20
Swiss chard....	*	*	-	-	-
Root Crops.....	82.38	.40	6,398.43	1.87	
Beetroot.....	.08	-	10.03	-	125.38
Carrot.....	.22	-	26.36	-	119.82
Onion.....	.78	-	105.71	.03	135.53
Potatoes.....	17.13	.08	-	-	-
Garlic.....	*	*	*	*	*
Taro/'Godere'	.91	-	73.05	.02	80.27
Sweet potatoes.	61.73	.30	5,970.86	1.75	96.73

Table 8- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

(S.N.N.P.R) Region

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	766,494.50	100.00	14,542,213.35	100.00	
Cereals.....	575,655.43	75.10	7,273,190.58	50.01	
Teff.....	133,882.17	17.47	989,566.47	6.80	7.39
Barley.....	68,463.31	8.93	759,733.03	5.22	11.10
Wheat.....	92,351.77	12.05	1,353,706.49	9.31	14.66
Maize.....	191,490.02	24.98	3,270,377.22	22.49	17.08
Sorghum.....	84,276.06	11.00	842,009.46	5.79	9.99
Finger millet..	4,527.18	.59	51,518.49	.35	11.38
Oats/'Aja'.....	626.57	.08	6,279.42	.04	10.02
Rice.....	*	*	-	-	-
Pulses.....	108,559.86	14.16	964,611.17	6.63	
Horse beans....	47,008.42	6.13	488,930.08	3.36	10.40
Field peas.....	28,104.28	3.67	221,266.15	1.52	7.87
Haricot beans..	26,799.10	3.50	209,074.91	1.44	7.80
Chick-peas....	5,176.74	.68	38,596.70	.27	7.46
Lentils.....	739.25	.10	2,605.13	.02	3.52
Vetch.....	452.93	.06	3,563.34	.02	7.87
Soya beans....	80.94	.01	162.26	-	2.00
Fenugreek.....	198.19	.03	412.61	-	2.08
Gibto.....	-	-	-	-	-
Oilseeds.....	3,370.09	.44	11,313.57	.08	
Neug.....	925.17	.12	2,062.84	.01	2.23
Linseed.....	968.82	.13	3,087.65	.02	3.19
Groundnuts...	521.39	.07	2,647.98	.02	5.08
Sufflower.....	174.57	.02	1,326.09	-	7.60
Sesame.....	172.59	.02	535.07	-	3.10
Rapeseed.....	607.54	.08	1,653.93	.01	2.72
Vegetables.....	25,869.24	3.38	1,228,777.26	8.45	
Lettuce.....	3.33	-	*	*	*
Head Cabbage...	89.50	.01	10,689.09	.07	119.43
Ethiopian Cabbage.....	8,964.23	1.17	883,882.80	6.08	98.60
Tomatoes.....	76.04	-	10,873.06	.07	142.99
Green peppers..	634.53	.08	61,296.95	.42	96.60
Red peppers....	16,056.72	2.09	259,428.98	1.78	16.16
Swiss chard....	44.88	-	*	*	*
Root Crops.....	53,039.88	6.92	5,064,320.78	34.83	
Beetroot.....	58.78	-	7,596.52	.05	129.24
Carrot.....	34.64	-	4,142.96	.03	119.60
Onion.....	1,219.73	.16	164,045.74	1.13	134.49
Potatoes.....	10,233.55	1.34	1,074,251.16	7.39	104.97
Garlic.....	350.98	.05	51,862.89	.36	147.77
Taro/'Godere'	17,498.36	2.28	1,399,538.23	9.62	79.98
Sweet potatoes.	23,643.84	3.08	2,362,883.30	16.25	99.94

Table 8.1- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Gurage Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	133,373.53	100.00	2,197,917.66	100.00	
Cereals.....	105,281.79	78.94	1,403,989.58	63.88	
Teff.....	25,673.67	19.25	186,296.49	8.48	7.26
Barley.....	18,107.35	13.58	238,813.56	10.87	13.19
Wheat.....	14,949.48	11.21	208,070.84	9.47	13.92
Maize.....	36,409.06	27.30	666,561.44	30.33	18.31
Sorghum.....	9,817.02	7.36	100,298.58	4.56	10.22
Finger millet..	201.19	.15	2,617.97	.12	13.01
Oats/'Aja'.....	124.01	.09	1,330.69	.06	10.73
Rice.....	-	-	-	-	-
Pulses.....	14,567.29	10.92	159,720.55	7.27	
Horse beans....	6,087.83	4.56	86,241.27	3.92	14.17
Field peas.....	3,336.47	2.50	32,293.90	1.47	9.68
Haricot beans..	1,922.20	1.44	17,535.99	.80	9.12
Chick-peas....	2,554.22	1.92	19,644.66	.89	7.69
Lentils.....	181.00	.14	444.94	.02	2.46
Vetch.....	423.95	.32	3,452.34	.16	8.14
Soya beans.....	*	*	-	-	-
Fenugreek.....	59.85	.04	107.45	-	1.80
Gibto.....	-	-	-	-	-
Oilseeds.....	1,093.92	.82	2,866.25	.13	
Neug.....	811.77	.61	1,808.06	.08	2.23
Linseed.....	165.39	.12	455.03	.02	2.75
Groundnuts...	*	*	-	-	-
Safflower.....	6.56	-	34.86	-	5.31
Sesame.....	*	*	*	*	*
Rapeseed.....	105.86	.08	556.29	.03	5.25
Vegetables.....	10,189.12	7.64	398,336.07	18.12	
Lettuce.....	*	*	*	*	*
Head Cabbage...	24.93	.02	2,992.08	.14	120.02
Ethiopian Cabbage.....	2,507.04	1.88	248,883.87	11.32	99.27
Tomatoes.....	6.82	-	890.03	.04	130.50
Green peppers..	17.95	.01	1,542.22	.07	85.92
Red peppers....	7,627.20	5.72	143,480.64	6.53	18.81
Swiss chard....	3.66	-	401.26	.02	109.63
Root Crops.....	2,241.41	1.68	233,005.21	10.60	
Beetroot.....	6.05	-	785.22	.04	129.79
Carrot.....	3.72	-	453.69	.02	121.96
Onion.....	*	*	*	*	*
Potatoes.....	1,248.42	.94	131,011.43	5.96	104.94
Garlic.....	*	*	*	*	*
Taro/'Godere'	610.67	.46	48,817.79	2.22	79.94
Sweet potatoes..	*	*	*	*	*

Table 8.2- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Hadiya Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	106,694.81	100.00	1,811,657.42	100.00	
Cereals.....	89,519.87	83.90	1,240,256.87	68.46	
Teff.....	21,199.16	19.87	197,793.08	10.92	9.33
Barley.....	5,688.66	5.33	57,576.16	3.18	10.12
Wheat.....	33,999.23	31.87	585,177.68	32.30	17.21
Maize.....	21,374.30	20.03	331,361.75	18.29	15.50
Sorghum.....	6,866.44	6.44	65,398.99	3.61	9.52
Finger millet..	342.04	.32	2,588.55	.14	7.57
Oats/'Aja'	50.03	.05	360.66	.02	7.21
Rice.....	-	-	-	-	-
Pulses.....	11,193.67	10.49	116,947.18	6.46	
Horse beans....	7,069.41	6.63	81,362.76	4.49	11.51
Field peas.....	2,328.21	2.18	18,972.96	1.05	8.15
Haricot beans..	1,120.09	1.05	8,607.57	.48	7.68
Chick-peas....	534.43	.50	7,424.31	.41	13.89
Lentils.....	116.03	.11	460.18	.03	3.97
Vetch.....	*	*	*	*	*
Soya beans.....	*	*	-	-	-
Fenugreek.....	*	*	*	*	*
Gibto.....	-	-	-	-	-
Oilseeds.....	490.37	.46	1,465.43	.08	
Neug.....	*	*	-	-	-
Linseed.....	293.58	.28	1,055.69	.06	3.60
Groundnuts...	*	*	-	-	-
Sufflower.....	*	*	-	-	-
Sesame.....	*	*	*	*	*
Rapeseed.....	185.67	.17	404.52	.02	2.18
Vegetables.....	2,675.10	2.51	169,618.91	9.36	
Lettuce.....	*	*	-	-	-
Head Cabbage...	3.07	-	316.51	.02	103.10
Ethiopian Cabbage.....	1,522.39	1.43	152,239.42	8.40	100.00
Tomatoes.....	17.06	.02	2,559.55	.14	150.03
Green peppers..	14.13	.01	1,088.51	.06	77.04
Red peppers....	1,116.08	1.05	13,156.03	.73	11.79
Swiss chard....	2.16	-	258.90	.01	119.86
Root Crops.....	2,815.81	2.64	283,369.03	15.64	
Beetroot.....	15.89	.01	2,065.09	.11	129.96
Carrot.....	2.44	-	297.61	.02	121.97
Onion.....	59.16	.06	7,986.40	.44	135.00
Potatoes.....	1,241.99	1.16	130,287.65	7.19	104.90
Garlic.....	8.56	-	1,266.01	.07	147.90
Taro/'Godere'	364.47	.34	29,157.94	1.61	80.00
Sweet potatoes.	1,123.30	1.05	112,308.33	6.20	99.98

Table 8.3- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Kembata Alaba Tembaro Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	72,575.72	100.00	1,457,946.87	100.00	
Cereals.....	56,123.33	77.33	775,163.65	53.17	
Teff.....	10,931.95	15.06	74,900.15	5.14	6.85
Barley.....	1,252.37	1.73	12,114.19	.83	9.67
Wheat.....	13,310.17	18.34	208,257.10	14.28	15.65
Maize.....	22,534.28	31.05	400,958.32	27.50	17.79
Sorghum.....	5,686.73	7.84	54,060.74	3.71	9.51
Finger millet.....	2,346.27	3.23	24,686.25	1.69	10.52
Oats/'Aja'.....	23.22	.03	186.91	.01	8.05
Rice.....	*	*	-	-	-
Pulses.....	5,173.72	7.13	42,442.12	2.91	
Horse beans.....	2,813.81	3.88	29,659.21	2.03	10.54
Field peas.....	613.51	.85	4,179.01	.29	6.81
Haricot beans.....	1,566.58	2.16	8,343.67	.57	5.33
Chick-peas.....	33.34	.05	80.54	-	2.42
Lentils.....	72.44	.10	71.33	-	.98
Vetch.....	*	*	-	-	-
Soya beans.....	*	*	-	-	-
Fenugreek.....	71.40	.10	108.36	-	1.52
Gibto.....	-	-	-	-	-
Oilseeds.....	138.65	.19	416.01	.03	
Neug.....	*	*	-	-	-
Linseed.....	64.24	.09	142.24	-	2.21
Groundnuts.....	*	*	-	-	-
Sufflower.....	*	*	-	-	-
Sesame.....	*	*	*	*	*
Rapeseed.....	63.75	.09	258.54	.02	4.06
Vegetables.....	6,771.13	9.33	208,390.30	14.29	
Lettuce.....	*	*	*	*	*
Head Cabbage.....	19.35	.03	2,321.50	.16	119.97
Ethiopian Cabbage.....	1,148.54	1.58	114,854.40	7.88	100.00
Tomatoes.....	11.33	.02	1,699.44	.12	149.99
Green peppers.....	9.67	.01	766.99	.05	79.32
Red peppers.....	5,580.34	7.69	88,547.25	6.07	15.87
Swiss chard.....	.58	-	69.63	-	120.05
Root Crops.....	4,368.90	6.02	431,534.79	29.60	
Beetroot.....	20.61	.03	2,674.26	.18	129.76
Carrot.....	*	*	*	*	*
Onion.....	90.06	.12	12,042.58	.83	133.72
Potatoes.....	1,554.37	2.14	163,208.50	11.19	105.00
Garlic.....	13.36	.02	1,917.55	.13	143.53
Taro/'Godere'.....	884.25	1.22	70,739.70	4.85	80.00
Sweet potatoes.....	1,791.46	2.47	179,145.56	12.29	100.00

Table 8.4- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Sidama Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	57,919.32	100.00	1,407,149.52	100.00	
Cereals.....	40,878.72	70.58	634,617.84	45.10	
Teff.....	2,153.86	3.72	16,327.62	1.16	7.58
Barley.....	7,776.46	13.43	87,340.08	6.21	11.23
Wheat.....	4,841.05	8.36	70,180.02	4.99	14.50
Maize.....	24,674.44	42.60	441,984.50	31.41	17.91
Sorghum.....	1,312.96	2.27	16,255.69	1.16	12.38
Finger millet..	36.85	.06	*	*	*
Oats/'Aja'	83.10	.14	1,265.56	.09	15.23
Rice.....	-	-	-	-	-
Pulses.....	9,464.00	16.34	89,896.57	6.39	
Horse beans....	2,043.99	3.53	25,937.67	1.84	12.69
Field peas.....	1,345.71	2.32	13,340.56	.95	9.91
Haricot beans..	6,057.11	10.46	50,446.83	3.59	8.33
Chick-peas....	*	*	*	*	*
Lentils.....	-	-	-	-	-
Vetch.....	*	*	*	*	*
Soya beans....	*	*	*	*	*
Fenugreek.....	*	*	*	*	*
Gibto.....	-	-	-	-	-
Oilseeds.....	*	*	*	*	*
Neug.....	-	-	-	-	-
Linseed.....	14.39	.02	74.32	-	5.16
Groundnuts....	*	*	-	-	-
Sufflower.....	*	*	-	-	-
Sesame.....	-	-	-	-	-
Rapeseed.....	*	*	*	*	*
Vegetables.....	2,556.70	4.41	172,267.40	12.24	
Lettuce.....	*	*	*	*	*
Head Cabbage..	*	*	*	*	*
Ethiopian Cabbage.....	1,431.38	2.47	143,138.07	10.17	100.00
Tomatoes.....	*	*	*	*	*
Green peppers..	230.79	.40	22,368.33	1.59	96.92
Red peppers....	*	*	6,242.28	.44	*
Swiss chard....	*	*	-	-	-
Root Crops.....	4,909.53	8.48	510,187.69	36.26	
Beetroot.....	2.39	-	310.78	.02	130.03
Carrot.....	4.62	-	563.62	.04	122.00
Onion.....	451.06	.78	60,893.86	4.33	135.00
Potatoes.....	*	*	*	*	*
Garlic.....	12.73	.02	1,876.60	.13	147.42
Taro/'Godere'	243.45	.42	19,476.34	1.38	80.00
Sweet potatoes.	2,687.25	4.64	268,725.32	19.10	100.00

Table 8.5- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Gedio Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	13,229.78	100.00	294,118.59	100.00	
Cereals.....	9,780.97	73.93	149,823.10	50.94	
Teff.....	152.26	1.15	1,158.86	.39	7.61
Barley.....	3,630.28	27.44	35,656.68	12.12	9.82
Wheat.....	1,152.35	8.71	12,637.29	4.30	10.97
Maize.....	4,782.98	36.15	99,650.38	33.88	20.83
Sorghum.....	47.94	.36	719.89	.24	15.02
Finger millet..	*	*	-	-	-
Oats/'Aja'.....	*	*	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	2,198.67	16.62	21,733.64	7.39	
Horse beans....	1,161.38	8.78	12,664.62	4.31	10.90
Field peas.....	932.32	7.05	8,631.91	2.93	9.26
Haricot beans..	102.70	.78	431.94	.15	4.21
Chick-peas....	*	*	-	-	-
Lentils.....	*	*	*	*	*
Vetch.....	-	-	-	-	-
Soya beans....	*	*	-	-	-
Fenugreek.....	-	-	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	48.85	.37	90.60	.03	
Neug.....	*	*	-	-	-
Linseed.....	3.45	.03	20.10	-	5.83
Groundnuts...	*	*	-	-	-
Sufflower.....	*	*	-	-	-
Sesame.....	-	-	-	-	-
Rapeseed.....	42.37	.32	70.50	.02	1.66
Vegetables.....	679.37	5.14	67,327.72	22.89	
Lettuce.....	-	-	-	-	-
Head Cabbage...	-	-	-	-	-
Ethiopian Cabbage.....	659.13	4.98	65,457.27	22.26	99.31
Tomatoes.....	-	-	-	-	-
Green peppers..	18.24	.14	1,824.15	.62	100.01
Red peppers....	*	*	*	*	*
Swiss chard....	-	-	-	-	-
Root Crops.....	521.92	3.95	55,143.52	18.75	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	*	*	*
Onion.....	164.65	1.24	22,227.13	7.56	135.00
Potatoes.....	14.15	.11	1,485.52	.51	104.98
Garlic.....	1.31	-	-	-	-
Taro/'Godere'	138.69	1.05	11,095.59	3.77	80.00
Sweet potatoes.	202.23	1.53	20,223.11	6.88	100.00

Table 8.6- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Wolayita Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	63,605.75	100.00	2,365,965.08	100.00	
Cereals.....	35,799.81	56.28	444,868.43	18.80	
Teff.....	10,775.09	16.94	69,860.21	2.95	6.48
Barley.....	1,420.43	2.23	11,554.03	.49	8.13
Wheat.....	1,985.77	3.12	24,378.05	1.03	12.28
Maize.....	18,478.43	29.05	311,704.35	13.17	16.87
Sorghum.....	2,981.46	4.69	26,482.40	1.12	8.88
Finger millet.....	144.42	.23	835.58	.04	5.79
Oats/'Aja'.....	*	*	*	*	*
Rice.....	-	-	-	-	-
Pulses.....	8,412.90	13.23	67,039.69	2.83	
Horse beans.....	825.61	1.30	7,752.17	.33	9.39
Field peas.....	1,403.11	2.21	10,265.79	.43	7.32
Haricot beans.....	5,435.78	8.55	44,585.17	1.88	8.20
Chick-peas.....	732.72	1.15	4,358.34	.18	5.95
Lentils.....	9.06	.01	25.61	-	2.83
Vetch.....	-	-	-	-	-
Soya beans.....	6.50	.01	52.62	-	8.10
Fenugreek.....	*	*	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	53.23	.08	275.42	.01	
Neug.....	-	-	-	-	-
Linseed.....	35.97	.06	*	*	*
Groundnuts.....	*	*	*	*	*
Sufflower.....	*	*	*	*	*
Sesame.....	-	-	-	-	-
Rapeseed.....	2.93	-	3.04	-	1.04
Vegetables.....	682.25	1.07	50,059.21	2.12	
Lettuce.....	*	*	*	*	*
Head Cabbage.....	*	*	*	*	*
Ethiopian Cabbage.....	297.82	.47	29,443.65	1.24	98.86
Tomatoes.....	*	*	*	*	*
Green peppers.....	170.48	.27	16,851.11	.71	98.85
Red peppers.....	209.23	.33	3,326.37	.14	15.90
Swiss chard.....	*	*	-	-	-
Root Crops.....	18,657.57	29.33	1,803,722.33	76.24	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	*	*	*
Onion.....	63.91	.10	8,335.13	.35	130.42
Potatoes.....	1,966.32	3.09	206,464.02	8.73	105.00
Garlic.....	*	*	*	*	*
Taro/'Godere'.....	3,706.51	5.83	296,521.17	12.53	80.00
Sweet potatoes.....	12,910.54	20.30	1,291,053.82	54.57	100.00

Table 8.7- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

South Omo Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	21,751.27	100.00	309,532.28	100.00	
Cereals.....	17,895.50	82.27	195,959.38	63.31	
Teff.....	1,986.59	9.13	16,294.72	5.26	8.20
Barley.....	2,013.98	9.26	20,883.44	6.75	10.37
Wheat.....	548.27	2.52	9,393.51	3.03	17.13
Maize.....	5,297.82	24.36	77,690.86	25.10	14.66
Sorghum.....	7,990.61	36.74	71,365.40	23.06	8.93
Finger millet.....	57.91	.27	331.46	.11	5.72
Oats/'Aja'.....	*	*	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	2,715.31	12.48	27,376.51	8.84	
Horse beans.....	1,089.93	5.01	12,842.83	4.15	11.78
Field peas.....	711.04	3.27	5,453.61	1.76	7.67
Haricot beans.....	902.26	4.15	9,056.89	2.93	10.04
Chick-peas.....	*	*	-	-	-
Lentils.....	*	*	*	*	*
Vetch.....	*	*	-	-	-
Soya beans.....	*	*	-	-	-
Fenugreek.....	*	*	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	200.80	.92	1,400.83	.45	
Neug.....	*	*	-	-	-
Linseed.....	32.16	.15	76.59	.02	2.38
Groundnuts.....	*	*	52.13	.02	*
Sufflower.....	130.09	.60	1,199.64	.39	9.22
Sesame.....	22.16	.10	65.93	.02	2.98
Rapeseed.....	*	*	*	*	*
Vegetables.....	126.73	.58	12,986.24	4.20	
Lettuce.....	-	-	-	-	-
Head Cabbage.....	*	*	*	*	*
Ethiopian Cabbage.....	99.76	.46	9,975.88	3.22	100.00
Tomatoes.....	*	*	-	-	-
Green peppers.....	*	*	*	*	*
Red peppers.....	.65	-	5.52	-	8.49
Swiss chard.....	*	*	*	*	*
Root Crops.....	812.93	3.74	71,809.31	23.20	
Beetroot.....	-	-	-	-	-
Carrot.....	*	*	-	-	-
Onion.....	33.19	.15	4,475.91	1.45	134.86
Potatoes.....	*	*	*	*	*
Garlic.....	2.48	.01	368.10	.12	148.43
Taro/'Godere'.....	557.80	2.56	44,624.16	14.42	80.00
Sweet potatoes.....	140.40	.65	14,040.20	4.54	100.00

Table 8.8- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Sheka Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	9,781.15	100.00	165,817.52	100.00	
Cereals.....	7,128.00	72.87	111,762.78	67.40	
Teff.....	587.97	6.01	3,797.52	2.29	6.46
Barley.....	279.31	2.86	1,785.15	1.08	6.39
Wheat.....	210.64	2.15	*	*	*
Maize.....	1,154.13	11.80	18,552.22	11.19	16.07
Sorghum.....	4,664.73	47.69	82,693.55	49.87	17.73
Finger millet..	*	*	*	*	*
Oats/'Aja'.....	*	*	*	*	*
Rice.....	-	-	-	-	-
Pulses.....	2,098.58	21.46	11,995.95	7.23	
Horse beans....	758.82	7.76	4,443.69	2.68	5.86
Field peas.....	1,260.59	12.89	6,489.43	3.91	5.15
Haricot beans..	77.15	.79	*	*	*
Chick-peas....	-	-	-	-	-
Lentils.....	-	-	-	-	-
Vetch.....	*	*	-	-	-
Soya beans.....	*	*	-	-	-
Fenugreek.....	*	*	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	*	*	*	*	*
Neug.....	-	-	-	-	-
Linseed.....	*	*	*	*	*
Groundnuts...	-	-	-	-	-
Sufflower.....	*	*	-	-	-
Sesame.....	*	*	*	*	*
Rapeseed.....	9.65	.10	*	*	*
Vegetables.....	168.78	1.73	8,647.08	5.21	
Lettuce.....	-	-	-	-	-
Head Cabbage...	-	-	-	-	-
Ethiopian Cabbage.....	46.72	.48	4,660.91	2.81	99.76
Tomatoes.....	*	*	*	*	*
Green peppers..	28.35	.29	2,643.81	1.59	93.26
Red peppers....	*	*	1,079.20	.65	*
Swiss chard....	*	*	*	*	*
Root Crops.....	359.80	3.68	33,278.75	20.07	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	*	*	*
Onion.....	*	*	*	*	*
Potatoes.....	28.05	.29	2,944.86	1.78	104.99
Garlic.....	2.62	.03	348.81	.21	133.13
Taro/'Godere'	253.82	2.60	20,305.64	12.25	80.00
Sweet potatoes.	*	*	*	*	*

Table 8.9- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Keffa Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	83,735.36	100.00	1,096,738.66	100.00	
Cereals.....	57,945.92	69.20	755,959.25	68.93	
Teff.....	15,189.45	18.14	119,437.23	10.89	7.86
Barley.....	7,839.55	9.36	73,132.30	6.67	9.33
Wheat.....	8,186.64	9.78	92,799.58	8.46	11.34
Maize.....	17,850.09	21.32	356,130.94	32.47	19.95
Sorghum.....	7,896.41	9.43	101,172.79	9.22	12.81
Finger millet..	810.71	.97	11,342.43	1.03	13.99
Oats/'Aja'.....	173.07	.21	1,943.98	.18	11.23
Rice.....	-	-	-	-	-
Pulses.....	23,534.23	28.11	191,136.44	17.43	
Horse beans....	13,644.39	16.29	117,994.22	10.76	8.65
Field peas.....	8,299.05	9.91	61,346.22	5.59	7.39
Haricot beans..	1,568.61	1.87	11,768.40	1.07	7.50
Chick-peas.....	*	*	-	-	-
Lentils.....	*	*	*	*	*
Vetch.....	*	*	*	*	*
Soya beans.....	*	*	-	-	-
Fenugreek.....	2.33	-	*	*	*
Gibto.....	-	-	-	-	-
Oilseeds.....	99.76	.12	266.89	.02	
Neug.....	*	*	*	*	*
Linseed.....	50.18	.06	163.01	.01	3.25
Groundnuts...	*	*	-	-	-
Sufflower.....	*	*	-	-	-
Sesame.....	*	*	-	-	-
Rapeseed.....	13.81	.02	33.54	-	2.43
Vegetables.....	804.35	.96	37,415.94	3.41	
Lettuce.....	*	*	*	*	*
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	304.50	.36	30,449.55	2.78	100.00
Tomatoes.....	-	-	-	-	-
Green peppers..	28.83	.03	2,846.67	.26	98.74
Red peppers....	460.19	.55	2,819.69	.26	6.13
Swiss chard....	*	*	*	*	*
Root Crops.....	1,351.10	1.61	111,960.15	10.21	
Beetroot.....	.91	-	118.55	.01	130.27
Carrot.....	*	*	*	*	*
Onion.....	14.46	.02	1,950.78	.18	134.91
Potatoes.....	41.74	.05	4,382.30	.40	104.99
Garlic.....	24.04	.03	3,594.72	.33	149.53
Taro/'Godere'	1,253.90	1.50	100,306.18	9.15	80.00
Sweet potatoes.	15.92	.02	1,592.09	.15	100.01

Table 8.10- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Gamo Gofa Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	87,740.76	100.00	1,738,108.86	100.00	
Cereals.....	67,845.30	77.32	761,813.71	43.83	
Teff.....	20,497.48	23.36	137,756.09	7.93	6.72
Barley.....	14,699.35	16.75	167,836.78	9.66	11.42
Wheat.....	7,334.63	8.36	87,176.87	5.02	11.89
Maize.....	16,149.14	18.41	272,456.90	15.68	16.87
Sorghum.....	8,917.71	10.16	93,777.70	5.40	10.52
Finger millet..	225.70	.26	2,658.43	.15	11.78
Oats/'Aja'.....	*	*	*	*	*
Rice.....	-	-	-	-	-
Pulses.....	10,263.49	11.70	93,538.23	5.38	
Horse beans.....	3,941.23	4.49	41,575.07	2.39	10.55
Field peas.....	2,834.43	3.23	26,276.62	1.51	9.27
Haricot beans..	2,780.62	3.17	20,934.57	1.20	7.53
Chick-peas.....	579.40	.66	4,100.11	.24	7.08
Lentils.....	70.04	.08	481.40	.03	6.87
Vetch.....	*	*	-	-	-
Soya beans.....	27.50	.03	103.62	-	3.77
Fenugreek.....	20.73	.02	66.85	-	3.22
Gibto.....	-	-	-	-	-
Oilseeds.....	555.02	.63	2,645.74	.15	
Neug.....	*	*	*	*	*
Linseed.....	56.88	.06	256.74	.01	4.51
Groundnuts...	411.78	.47	2,133.21	.12	5.18
Safflower.....	6.01	-	21.63	-	3.60
Sesame.....	43.19	.05	127.08	-	2.94
Rapeseed.....	*	*	*	*	*
Vegetables.....	440.03	.50	42,852.93	2.47	
Lettuce.....	-	-	-	-	-
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	340.21	.39	34,001.81	1.96	99.94
Tomatoes.....	33.66	.04	5,048.40	.29	149.98
Green peppers..	37.11	.04	3,612.14	.21	97.34
Red peppers....	6.18	-	75.12	-	12.16
Swiss chard....	*	*	-	-	-
Root Crops.....	8,636.93	9.84	837,258.25	48.17	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	*	*	*
Onion.....	90.76	.10	12,253.28	.71	135.01
Potatoes.....	2,262.30	2.58	237,542.04	13.67	105.00
Garlic.....	15.45	.02	2,314.65	.13	149.82
Taro/'Godere'	2,076.26	2.37	165,882.59	9.54	79.89
Sweet potatoes..	4,190.42	4.78	419,041.57	24.11	100.00

Table 8.11- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Bench-Maji Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	21,885.81	100.00	536,817.36	100.00	
Cereals.....	16,237.87	74.19	231,467.10	43.12	
Teff.....	1,940.93	8.87	12,008.26	2.24	6.19
Barley.....	664.23	3.04	5,876.36	1.09	8.85
Wheat.....	237.86	1.09	1,919.84	.36	8.07
Maize.....	9,452.70	43.19	153,163.93	28.53	16.20
Sorghum.....	3,810.71	17.41	56,365.19	10.50	14.79
Finger millet..	126.63	.58	2,075.59	.39	16.39
Oats/'Aja'.....	4.81	.02	57.94	.01	12.05
Rice.....	-	-	-	-	-
Pulses.....	1,963.32	8.97	18,492.91	3.44	
Horse beans....	894.50	4.09	8,080.93	1.51	9.03
Field peas.....	643.91	2.94	5,324.68	.99	8.27
Haricot beans..	413.73	1.89	5,064.21	.94	12.24
Chick-peas....	-	-	-	-	-
Lentils.....	6.53	.03	22.11	-	3.39
Vetch.....	*	*	-	-	-
Soya beans.....	.40	-	-	-	-
Fenugreek.....	*	*	*	*	*
Gibto.....	-	-	-	-	-
Oilseeds.....	163.89	.75	399.09	.07	
Neug.....	*	*	-	-	-
Linseed.....	12.14	.06	53.32	-	4.39
Groundnuts....	*	*	-	-	-
Sufflower.....	*	*	-	-	-
Sesame.....	*	*	*	*	*
Rapeseed.....	68.84	.31	104.61	.02	1.52
Vegetables.....	271.70	1.24	25,425.64	4.74	
Lettuce.....	-	-	-	-	-
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	195.30	.89	19,530.23	3.64	100.00
Tomatoes.....	*	*	*	*	*
Green peppers..	54.46	.25	5,445.64	1.01	99.99
Red peppers....	*	*	*	*	*
Swiss chard....	*	*	-	-	-
Root Crops.....	3,249.02	14.85	261,032.62	48.63	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	*	*	*
Onion.....	4.13	.02	558.03	.10	135.12
Potatoes.....	.72	-	75.12	.01	104.33
Garlic.....	1.59	-	238.17	.04	149.79
Taro/'Godere'	3,207.87	14.66	256,629.68	47.81	80.00
Sweet potatoes.	*	*	*	*	*

Table 8.12- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Yem Special Wereda

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	13,414.70	100.00	150,128.44	100.00	
Cereals.....	10,515.73	78.39	101,601.10	67.68	
Teff.....	3,718.93	27.72	31,300.29	20.85	8.42
Barley.....	1,374.79	10.25	11,799.48	7.86	8.58
Wheat.....	3,097.77	23.09	29,842.77	19.88	9.63
Maize.....	1,704.55	12.71	22,390.46	14.91	13.14
Sorghum.....	610.24	4.55	6,196.36	4.13	10.15
Finger millet..	-	-	-	-	-
Oats/'Aja'.....	9.46	.07	71.74	.05	7.58
Rice.....	-	-	-	-	-
Pulses.....	2,379.09	17.73	19,346.43	12.89	
Horse beans....	1,389.48	10.36	12,932.64	8.61	9.31
Field peas.....	882.29	6.58	6,004.82	4.00	6.81
Haricot beans..	3.60	.03	-	-	-
Chick-peas....	*	*	*	*	*
Lentils.....	89.58	.67	357.38	.24	3.99
Vetch.....	*	*	-	-	-
Soya beans.....	-	-	-	-	-
Fenugreek.....	2.79	.02	9.18	-	3.29
Gibto.....	-	-	-	-	-
Oilseeds.....	201.72	1.50	412.82	.28	
Neug.....	46.51	.35	93.55	.06	2.01
Linseed.....	148.12	1.10	305.56	.20	2.06
Groundnuts...	-	-	-	-	-
Sufflower.....	-	-	-	-	-
Sesame.....	-	-	-	-	-
Rapeseed.....	7.09	.05	13.71	-	1.93
Vegetables.....	61.70	.46	6,108.53	4.07	
Lettuce.....	*	*	-	-	-
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	55.89	.42	5,589.15	3.72	100.00
Tomatoes.....	*	*	*	*	*
Green peppers..	1.83	.01	183.16	.12	100.09
Red peppers....	*	*	*	*	*
Swiss chard....	*	*	*	*	*
Root Crops.....	256.45	1.91	22,659.56	15.09	
Beetroot.....	.49	-	63.06	.04	128.69
Carrot.....	.23	-	28.29	.02	123.00
Onion.....	.32	-	43.08	.03	134.63
Potatoes.....	55.12	.41	5,787.33	3.85	105.00
Garlic.....	4.56	.03	596.51	.40	130.81
Taro/'Godere'	171.61	1.28	13,729.09	9.14	80.00
Sweet potatoes.	24.12	.18	2,412.19	1.61	100.01

Table 8.13- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Amaro Special Wereda

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	4,857.74	100.00	60,234.82	100.00	
Cereals.....	3,928.27	80.87	38,733.37	64.30	
Teff.....	1,995.78	41.08	18,532.49	30.77	9.29
Barley.....	1,009.53	20.78	9,552.27	15.86	9.46
Wheat.....	440.67	9.07	5,745.66	9.54	13.04
Maize.....	294.67	6.07	*	*	*
Sorghum.....	184.58	3.80	942.60	1.56	5.11
Finger millet..	-	-	-	-	-
Oats/'Aja'.....	*	*	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	775.28	15.96	5,676.42	9.42	
Horse beans....	213.82	4.40	2,077.06	3.45	9.71
Field peas.....	389.21	8.01	2,846.80	4.73	7.31
Haricot beans..	117.31	2.41	452.48	.75	3.86
Chick-peas....	*	*	*	*	*
Lentils.....	13.29	.27	82.43	.14	6.20
Vetch.....	*	*	-	-	-
Soya beans.....	-	-	-	-	-
Fenugreek.....	*	*	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	1.22	.03	*	*	
Neug.....	-	-	-	-	-
Linseed.....	*	*	*	*	*
Groundnuts...	*	*	-	-	-
Sufflower.....	*	*	-	-	-
Sesame.....	-	-	-	-	-
Rapeseed.....	*	*	-	-	-
Vegetables.....	78.33	1.61	7,267.60	12.07	
Lettuce.....	-	-	-	-	-
Head Cabbage...	-	-	-	-	-
Ethiopian Cabbage.....	72.68	1.50	7,267.60	12.07	99.99
Tomatoes.....	-	-	-	-	-
Green peppers..	*	*	-	-	-
Red peppers....	*	*	-	-	-
Swiss chard....	-	-	-	-	-
Root Crops.....	74.64	1.54	8,553.66	14.20	
Beetroot.....	-	-	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	*	*	*	*	*
Potatoes.....	*	*	-	-	-
Garlic.....	-	-	-	-	-
Taro/'Godere'	1.22	.03	97.74	.16	80.11
Sweet potatoes.	38.73	.80	3,872.68	6.43	99.99

Table 8.14- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Burji Special Wereda

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	4,489.93	100.00	34,751.10	100.00	
Cereals.....	2,949.84	65.70	23,623.93	67.98	
Teff.....	1,034.71	23.05	6,205.08	17.86	6.00
Barley.....	189.91	4.23	1,014.63	2.92	5.34
Wheat.....	365.90	8.15	1,637.61	4.71	4.48
Maize.....	603.25	13.44	10,186.17	29.31	16.89
Sorghum.....	755.23	16.82	4,580.46	13.18	6.06
Finger millet..	-	-	-	-	-
Oats/'Aja'.....	*	*	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	1,512.59	33.69	8,782.81	25.27	
Horse beans.....	*	*	*	*	*
Field peas.....	65.97	1.47	422.73	1.22	6.41
Haricot beans..	1,129.53	25.16	6,584.28	18.95	5.83
Chick-peas.....	253.26	5.64	1,364.51	3.93	5.39
Lentils.....	32.28	.72	*	*	*
Vetch.....	*	*	-	-	-
Soya beans.....	*	*	-	-	-
Fenugreek.....	8.35	.19	16.26	.05	1.95
Gibto.....	-	-	-	-	-
Oilseeds.....	*	*	*	*	
Neug.....	-	-	-	-	-
Linseed.....	*	*	*	*	*
Groundnuts...	-	-	-	-	-
Sufflower.....	*	*	-	-	-
Sesame.....	-	-	-	-	-
Rapeseed.....	*	*	-	-	-
Vegetables.....	10.46	.23	904.39	2.60	
Lettuce.....	*	*	-	-	-
Head Cabbage...	-	-	-	-	-
Ethiopian Cabbage.....	9.22	.21	904.39	2.60	98.09
Tomatoes.....	*	*	-	-	-
Green peppers..	*	*	-	-	-
Red peppers....	*	*	-	-	-
Swiss chard....	*	*	-	-	-
Root Crops.....	12.21	.27	1,427.91	4.11	
Beetroot.....	*	*	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	6.50	.14	877.85	2.53	135.05
Potatoes.....	1.77	.04	185.78	.53	104.96
Garlic.....	*	*	-	-	-
Taro/'Godere'	*	*	-	-	-
Sweet potatoes.	3.64	.08	364.28	1.05	100.08

Table 8.15- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Konso Special Wereda

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	16,660.25	100.00	87,866.68	100.00	
Cereals.....	14,353.00	86.15	67,882.65	77.26	
Teff.....	2,072.06	12.44	10,832.57	12.33	5.23
Barley.....	93.78	.56	*	*	*
Wheat.....	*	*	*	*	*
Maize.....	3,584.72	21.52	26,966.89	30.69	7.52
Sorghum.....	8,547.25	51.30	29,447.03	33.51	3.45
Finger millet..	*	*	-	-	-
Oats/'Aja'.....	-	-	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	2,117.80	12.71	11,522.54	13.11	
Horse beans.....	-	-	-	-	-
Field peas.....	386.29	2.32	1,357.00	1.54	3.51
Haricot beans..	1,593.86	9.57	9,952.51	11.33	6.24
Chick-peas.....	*	*	*	*	*
Lentils.....	*	*	*	*	*
Vetch.....	-	-	-	-	-
Soya beans.....	*	*	-	-	-
Fenugreek.....	*	*	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	*	*	*	*	
Neug.....	-	-	-	-	-
Linseed.....	*	*	-	-	-
Groundnuts...	-	-	-	-	-
Safflower.....	*	*	*	*	*
Sesame.....	-	-	-	-	-
Rapeseed.....	-	-	-	-	-
Vegetables.....	98.09	.59	*	*	
Lettuce.....	-	-	-	-	-
Head Cabbage...	-	-	-	-	-
Ethiopian Cabbage.....	97.74	.59	-	-	-
Tomatoes.....	*	*	*	*	*
Green peppers..	-	-	-	-	-
Red peppers....	*	*	-	-	-
Swiss chard....	-	-	-	-	-
Root Crops.....	*	*	*	*	
Beetroot.....	-	-	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	*	*	*	*	*
Potatoes.....	*	*	*	*	*
Garlic.....	-	-	-	-	-
Taro/'Godere'	*	*	-	-	-
Sweet potatoes.	14.44	.09	1,443.91	1.64	99.99

Table 8.16- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Derashe Special Wereda

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	14,666.17	100.00	135,472.42	100.00	
Cereals.....	13,462.91	91.80	112,712.01	83.20	
Teff.....	1,676.24	11.43	13,256.04	9.79	7.91
Barley.....	315.75	2.15	2,023.60	1.49	6.41
Wheat.....	186.29	1.27	2,058.09	1.52	11.05
Maize.....	3,065.53	20.90	21,910.07	16.17	7.15
Sorghum.....	8,219.11	56.04	73,464.22	54.23	8.94
Finger millet..	-	-	-	-	-
Oats/'Aja'.....	-	-	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	1,041.33	7.10	5,740.34	4.24	
Horse beans....	41.57	.28	209.70	.15	5.04
Field peas.....	64.67	.44	180.32	.13	2.79
Haricot beans..	687.15	4.69	4,546.87	3.36	6.62
Chick-peas....	219.61	1.50	735.83	.54	3.35
Lentils.....	*	*	*	*	*
Vetch.....	-	-	-	-	-
Soya beans....	*	*	-	-	-
Fenugreek.....	*	*	*	*	*
Gibto.....	-	-	-	-	-
Oilseeds.....	2.31	.02	*	*	
Neug.....	-	-	-	-	-
Linseed.....	*	*	*	*	*
Groundnuts...	-	-	-	-	-
Safflower.....	*	*	-	-	-
Sesame.....	-	-	-	-	-
Rapeseed.....	-	-	-	-	-
Vegetables.....	58.14	.40	5,602.93	4.14	
Lettuce.....	-	-	-	-	-
Head Cabbage..	-	-	-	-	-
Ethiopian Cabbage.....	50.58	.34	4,952.95	3.66	97.92
Tomatoes.....	*	*	-	-	-
Green peppers..	*	*	*	*	*
Red peppers....	*	*	-	-	-
Swiss chard....	-	-	-	-	-
Root Crops.....	101.48	.69	11,412.74	8.42	
Beetroot.....	*	*	*	*	*
Carrot.....	-	-	-	-	-
Onion.....	78.99	.54	10,664.24	7.87	135.01
Potatoes.....	6.23	.04	654.22	.48	105.01
Garlic.....	*	*	*	*	*
Taro/'Godere'	*	*	-	-	-
Sweet potatoes.	14.75	.10	-	-	-

Table 8.17- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Dawro Zone

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	29,566.25	100.00	480,601.57	100.00	
Cereals.....	18,703.39	63.26	141,086.09	29.36	
Teff.....	8,997.09	30.43	46,998.10	9.78	5.22
Barley.....	891.28	3.01	6,624.41	1.38	7.43
Wheat.....	1,194.91	4.04	9,316.34	1.94	7.80
Maize.....	3,052.36	10.32	36,903.52	7.68	12.09
Sorghum.....	4,488.21	15.18	40,692.21	8.47	9.07
Finger millet.....	-	-	-	-	-
Oats/'Aja'.....	79.54	.27	551.52	.11	6.93
Rice.....	-	-	-	-	-
Pulses.....	7,230.70	24.46	53,524.28	11.14	
Horse beans.....	3,805.43	12.87	31,089.71	6.47	8.17
Field peas.....	2,177.09	7.36	14,072.83	2.93	6.46
Haricot beans.....	1,045.66	3.54	7,678.53	1.60	7.34
Chick-peas.....	90.36	.31	322.78	.07	3.57
Lentils.....	105.58	.36	343.07	.07	3.25
Vetch.....	*	*	*	*	*
Soya beans.....	*	*	*	*	*
Fenugreek.....	*	*	*	*	*
Gibto.....	-	-	-	-	-
Oilseeds.....	156.87	.53	688.14	.14	
Neug.....	*	*	*	*	*
Linseed.....	71.66	.24	236.53	.05	3.30
Groundnuts.....	*	*	432.22	.09	*
Sufflower.....	-	-	-	-	-
Sesame.....	*	*	-	-	-
Rapeseed.....	8.69	.03	17.05	-	1.96
Vegetables.....	182.55	.62	14,163.18	2.95	
Lettuce.....	*	*	-	-	-
Head Cabbage.....	-	-	-	-	-
Ethiopian Cabbage.....	116.62	.39	11,661.99	2.43	100.00
Tomatoes.....	*	*	-	-	-
Green peppers.....	7.77	.03	721.60	.15	92.87
Red peppers.....	44.73	.15	294.59	.06	6.59
Swiss chard.....	*	*	*	*	*
Root Crops.....	3,292.74	11.14	271,139.88	56.42	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	-	-	-
Onion.....	3.19	.01	371.97	.08	116.61
Potatoes.....	94.74	.32	9,947.63	2.07	105.00
Garlic.....	5.85	.02	837.14	.17	143.10
Taro/'Godere'.....	2,945.25	9.96	235,620.32	49.03	80.00
Sweet potatoes.....	242.79	.82	24,278.77	5.05	100.00

Table 8.18- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Basketo Special Wereda

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	2,582.78	100.00	50,659.52	100.00	
Cereals.....	2,182.73	84.51	25,880.51	51.09	
Teff.....	943.09	36.51	8,859.28	17.49	9.39
Barley.....	260.25	10.08	2,359.04	4.66	9.06
Wheat.....	*	*	*	*	*
Maize.....	527.91	20.44	8,830.52	17.43	16.73
Sorghum.....	447.48	17.33	5,820.54	11.49	13.01
Finger millet.....	-	-	-	-	-
Oats/'Aja'.....	*	*	-	-	-
Rice.....	-	-	-	-	-
Pulses.....	154.10	5.97	1,055.07	2.08	
Horse beans.....	11.74	.45	44.58	.09	3.80
Field peas.....	81.14	3.14	613.37	1.21	7.56
Haricot beans.....	57.75	2.24	397.11	.78	6.88
Chick-peas.....	*	*	-	-	-
Lentils.....	-	-	-	-	-
Vetch.....	-	-	-	-	-
Soya beans.....	*	*	-	-	-
Fenugreek.....	*	*	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	4.79	.19	32.35	.06	
Neug.....	*	*	-	-	-
Linseed.....	*	*	*	*	*
Groundnuts.....	*	*	*	*	*
Sufflower.....	*	*	*	*	*
Sesame.....	-	-	-	-	-
Rapeseed.....	*	*	-	-	-
Vegetables.....	6.09	.24	608.68	1.20	
Lettuce.....	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-
Ethiopian Cabbage.....	6.02	.23	601.80	1.19	99.97
Tomatoes.....	-	-	-	-	-
Green peppers.....	*	*	*	*	*
Red peppers.....	-	-	-	-	-
Swiss chard.....	-	-	-	-	-
Root Crops.....	235.07	9.10	23,082.91	45.56	
Beetroot.....	-	-	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	*	*	*	*	*
Potatoes.....	49.25	1.91	5,171.39	10.21	105.00
Garlic.....	*	*	*	*	*
Taro/'Godere'.....	37.34	1.45	2,986.95	5.90	79.99
Sweet potatoes.....	146.30	5.66	14,630.49	28.88	100.00

Table 8.19- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Konta Special Wereda

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	7,963.44	100.00	160,729.00	100.00	
Cereals.....	5,122.48	64.33	55,989.22	34.83	
Teff.....	2,355.85	29.58	17,952.39	11.17	7.62
Barley.....	956.06	12.01	13,425.17	8.35	14.04
Wheat.....	251.91	3.16	3,032.57	1.89	12.04
Maize.....	499.68	6.27	9,013.67	5.61	18.04
Sorghum.....	1,031.24	12.95	12,275.13	7.64	11.90
Finger millet..	-	-	-	-	-
Oats/'Aja'.....	*	*	*	*	*
Rice.....	-	-	-	-	-
Pulses.....	1,763.80	22.15	18,643.50	11.60	
Horse beans....	1,195.18	15.01	13,824.08	8.60	11.57
Field peas.....	349.25	4.39	3,193.59	1.99	9.14
Haricot beans..	217.42	2.73	1,625.07	1.01	7.47
Chick-peas....	*	*	*	*	*
Lentils.....	-	-	-	-	-
Vetch.....	-	-	-	-	-
Soya beans....	-	-	-	-	-
Fenugreek.....	-	-	-	-	-
Gibto.....	-	-	-	-	-
Oilseeds.....	7.00	.09	15.02	-	-
Neug.....	*	*	-	-	-
Linseed.....	6.73	.08	15.02	-	2.23
Groundnuts...	-	-	-	-	-
Sufflower.....	-	-	-	-	-
Sesame.....	*	*	-	-	-
Rapeseed.....	-	-	-	-	-
Vegetables.....	8.63	.11	766.47	.48	
Lettuce.....	-	-	-	-	-
Head Cabbage...	-	-	-	-	-
Ethiopian Cabbage.....	2.70	.03	269.88	.17	99.96
Tomatoes.....	-	-	-	-	-
Green peppers..	4.92	.06	491.51	.31	99.90
Red peppers....	1.02	.01	5.08	-	4.98
Swiss chard....	-	-	-	-	-
Root Crops.....	1,061.53	13.33	85,314.79	53.08	
Beetroot.....	-	-	-	-	-
Carrot.....	*	*	-	-	-
Onion.....	-	-	-	-	-
Potatoes.....	14.62	.18	1,535.44	.96	105.02
Garlic.....	*	*	*	*	*
Taro/'Godere'	1,044.34	13.11	83,547.36	51.98	80.00
Sweet potatoes.	1.83	.02	183.22	.11	100.12

Table 9- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Gambella Region

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	8,724.84	100.00	178,765.64	100.00	
Cereals.....	7,876.60	90.28	144,048.75	80.58	
Teff.....	4.67	.05	*	*	*
Barley.....	9.41	.11	21.21	.01	2.25
Wheat.....	*	*	-	-	-
Maize.....	5,110.06	58.57	109,867.48	61.46	21.50
Sorghum.....	2,664.26	30.54	33,217.91	18.58	12.47
Finger millet..	48.38	.55	535.55	.30	11.07
Oats/'Aja'.....	*	*	-	-	-
Rice.....	38.57	.44	384.60	.22	9.97
Pulses.....	116.47	1.33	706.26	.40	
Horse beans....	*	*	*	*	*
Field peas.....	*	*	-	-	-
Haricot beans..	112.31	1.29	704.26	.39	6.27
Chick-peas.....	*	*	-	-	-
Lentils.....	*	*	-	-	-
Vetch.....	*	*	-	-	-
Soya beans.....	.09	-	-	-	-
Fenugreek.....	*	*	-	-	-
Gibto.....	*	*	-	-	-
Oilseeds.....	344.68	3.95	988.42	.55	
Neug.....	*	*	-	-	-
Linseed.....	*	*	-	-	-
Groundnuts...	26.06	.30	177.43	.10	6.81
Sufflower.....	.73	-	-	-	-
Sesame.....	314.63	3.61	806.57	.45	2.56
Rapeseed.....	*	*	*	*	*
Vegetables.....	55.70	.64	4,254.51	2.38	
Lettuce.....	-	-	-	-	-
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage..	21.95	.25	2,193.90	1.23	99.95
Tomatoes.....	7.97	.09	1,179.85	.66	148.04
Green peppers..	4.85	.06	481.53	.27	99.28
Red peppers....	20.06	.23	301.05	.17	15.01
Swiss chard....	*	*	-	-	-
Root Crops.....	331.40	3.80	28,767.70	16.09	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	-	-	-
Onion.....	*	*	*	*	*
Potatoes.....	*	*	*	*	*
Garlic.....	.67	-	98.19	.05	146.55
Taro/'Godere'	220.70	2.53	17,655.85	9.88	80.00
Sweet potatoes..	108.20	1.24	10,819.93	6.05	100.00

Table 9.1- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Zone 1

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	1,968.95	100.00	36,958.04	100.00	
Cereals.....	1,845.61	93.74	30,282.28	81.94	
Teff.....	.69	.04	-	-	-
Barley.....	*	*	-	-	-
Wheat.....	-	-	-	-	-
Maize.....	1,715.58	87.13	28,424.92	76.91	16.57
Sorghum.....	127.08	6.45	1,857.37	5.03	14.62
Finger millet..	-	-	-	-	-
Oats/'Aja'.....	*	*	-	-	-
Rice.....	*	*	-	-	-
Pulses.....	46.10	2.34	220.45	.60	
Horse beans....	-	-	-	-	-
Field peas.....	-	-	-	-	-
Haricot beans..	45.88	2.33	220.45	.60	4.80
Chick-peas....	*	*	-	-	-
Lentils.....	-	-	-	-	-
Vetch.....	.01	-	-	-	-
Soya beans.....	*	*	-	-	-
Fenugreek.....	-	-	-	-	-
Gibto.....	*	*	-	-	-
Oilseeds.....	11.84	.60	92.89	.25	
Neug.....	-	-	-	-	-
Linseed.....	*	*	-	-	-
Groundnuts...	3.61	.18	37.15	.10	10.29
Sufflower.....	*	*	-	-	-
Sesame.....	*	*	*	*	*
Rapeseed.....	-	-	-	-	-
Vegetables.....	*	*	*	*	
Lettuce.....	-	-	-	-	-
Head Cabbage...	-	-	-	-	-
Ethiopian Cabbage.....	.34	.02	34.11	.09	100.32
Tomatoes.....	*	*	*	*	*
Green peppers..	*	*	*	*	*
Red peppers....	*	*	-	-	-
Swiss chard....	-	-	-	-	-
Root Crops.....	61.21	3.11	5,767.47	15.61	
Beetroot.....	-	-	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	-	-	-	-	-
Potatoes.....	.08	-	-	-	-
Garlic.....	-	-	-	-	-
Taro/'Godere'	17.27	.88	1,381.99	3.74	80.02
Sweet potatoes.	43.85	2.23	4,385.48	11.87	100.01

Table 9.2- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Zone 2

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	6,755.89	100.00	141,807.61	100.00	
Cereals.....	6,030.99	89.27	113,766.47	80.23	
Teff.....	*	*	*	*	*
Barley.....	8.02	.12	21.21	.02	2.64
Wheat.....	*	*	-	-	-
Maize.....	3,394.48	50.24	81,442.56	57.43	23.99
Sorghum.....	2,537.18	37.56	31,360.54	22.11	12.36
Finger millet..	48.38	.72	535.55	.38	11.07
Oats/'Aja'	*	*	-	-	-
Rice.....	38.40	.57	384.60	.27	10.02
Pulses.....	70.37	1.04	*	*	*
Horse beans....	*	*	*	*	*
Field peas.....	*	*	-	-	-
Haricot beans..	66.43	.98	*	*	*
Chick-peas.....	*	*	-	-	-
Lentils.....	*	*	-	-	-
Vetch.....	*	*	-	-	-
Soya beans.....	*	*	-	-	-
Fenugreek.....	*	*	-	-	-
Gibto.....	*	*	-	-	-
Oilseeds.....	332.84	4.93	895.53	.63	
Neug.....	*	*	-	-	-
Linseed.....	*	*	-	-	-
Groundnuts...	22.45	.33	140.28	.10	6.25
Sufflower.....	.68	.01	-	-	-
Sesame.....	308.10	4.56	750.83	.53	2.44
Rapeseed.....	*	*	*	*	*
Vegetables.....	51.50	.76	3,659.57	2.58	
Lettuce.....	-	-	-	-	-
Head Cabbage...	*	*	*	*	*
Ethiopian Cabbage.....	21.61	.32	2,159.80	1.52	99.94
Tomatoes.....	4.42	.07	*	*	*
Green peppers..	4.56	.07	453.22	.32	99.39
Red peppers....	20.04	.30	301.05	.21	15.02
Swiss chard....	*	*	-	-	-
Root Crops.....	270.18	4.00	23,000.23	16.22	
Beetroot.....	*	*	*	*	*
Carrot.....	*	*	-	-	-
Onion.....	*	*	*	*	*
Potatoes.....	*	*	*	*	*
Garlic.....	.67	-	98.19	.07	146.55
Taro/'Godere'	203.42	3.01	16,273.85	11.48	80.00
Sweet potatoes.	64.34	.95	6,434.45	4.54	100.01

Table 10- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Harari Region

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	5,987.84	100.00	63,592.36	100.00	
Cereals.....	4,624.92	77.24	43,859.47	68.97	
Teff.....	*	*	*	*	*
Barley.....	18.04	.30	*	*	*
Wheat.....	99.94	1.67	549.11	.86	5.49
Maize.....	667.56	11.15	8,267.40	13.00	12.38
Sorghum.....	3,834.52	64.04	34,892.12	54.87	9.10
Finger millet.....	*	*	-	-	-
Oats/'Aja'.....	*	*	*	*	*
Rice.....	-	-	-	-	-
Pulses.....	25.69	.43	130.21	.20	
Horse beans.....	*	*	*	*	*
Field peas.....	*	*	*	*	*
Haricot beans.....	10.62	.18	55.60	.09	5.24
Chick-peas.....	*	*	*	*	*
Lentils.....	-	-	-	-	-
Vetch.....	-	-	-	-	-
Soya beans.....	-	-	-	-	-
Fenugreek.....	*	*	*	*	*
Gibto.....	-	-	-	-	-
Oilseeds.....	1,249.01	20.86	12,073.66	18.99	
Neug.....	-	-	-	-	-
Linseed.....	-	-	-	-	-
Groundnuts... ..	1,239.61	20.70	11,983.49	18.84	9.67
Safflower.....	-	-	-	-	-
Sesame.....	*	*	*	*	*
Rapeseed.....	-	-	-	-	-
Vegetables.....	*	*	*	*	*
Lettuce.....	-	-	-	-	-
Head Cabbage... ..	*	*	-	-	-
Ethiopian Cabbage.....	-	-	-	-	-
Tomatoes.....	-	-	-	-	-
Green peppers.. ..	*	*	*	*	*
Red peppers.....	*	*	-	-	-
Swiss chard.....	-	-	-	-	-
Root Crops.....	87.81	1.47	7,510.22	11.81	
Beetroot.....	-	-	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	-	-	-	-	-
Potatoes.....	*	*	*	*	*
Garlic.....	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	61.10	1.02	4,705.86	7.40	77.02

Table 11- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Addis Ababa Administration

Crop	Area		Production		Yield QT/HA
	Hectares	%	Quintals	%	
TOTAL	21,155.18	100.00	228,668.41	100.00	
Cereals.....	16,077.97	76.00	163,765.09	71.62	
Teff.....	7,982.95	37.74	69,957.24	30.59	8.76
Barley.....	148.28	.70	1,052.02	.46	7.09
Wheat.....	7,864.34	37.17	92,449.44	40.43	11.76
Maize.....	47.39	.22	46.18	.02	.97
Sorghum.....	26.51	.13	195.91	.09	7.39
Finger millet..	*	*	*	*	*
Oats/'Aja'.....	*	*	*	*	*
Rice.....	-	-	-	-	-
Pulses.....	4,888.55	23.11	43,676.78	19.10	
Horse beans....	230.59	1.09	1,272.51	.56	5.52
Field peas.....	53.54	.25	228.18	.10	4.26
Haricot beans..	1.39	-	2.03	-	1.46
Chick-peas.....	2,544.09	12.03	25,715.48	11.25	10.11
Lentils.....	*	*	*	*	*
Vetch.....	1,295.38	6.12	12,410.53	5.43	9.58
Soya beans.....	-	-	-	-	-
Fenugreek.....	204.71	.97	756.06	.33	3.69
Gibto.....	-	-	-	-	-
Oilseeds.....	14.06	.07	*	*	*
Neug.....	*	*	-	-	-
Linseed.....	11.54	.05	*	*	*
Groundnuts...	-	-	-	-	-
Sufflower.....	*	*	-	-	-
Sesame.....	-	-	-	-	-
Rapeseed.....	.71	-	2.35	-	3.31
Vegetables.....	18.03	.09	1,810.84	.79	
Lettuce.....	.21	-	*	*	*
Head Cabbage...	2.70	.01	324.04	.14	120.01
Ethiopian Cabbage.....	13.61	.06	1,360.52	.60	99.96
Tomatoes.....	*	*	-	-	-
Green peppers..	.78	-	*	*	*
Red peppers....	-	-	-	-	-
Swiss chard....	.46	-	51.29	.02	111.50
Root Crops.....	156.57	.74	19,394.05	8.48	
Beetroot.....	4.32	.02	561.05	.25	129.87
Carrot.....	136.13	.64	16,608.38	7.26	122.00
Onion.....	1.99	-	261.92	.11	131.62
Potatoes.....	2.01	-	197.75	.09	98.38
Garlic.....	12.07	.06	1,762.45	.77	146.02
Taro/'Godere'	-	-	-	-	-
Sweet potatoes.	.05	-	*	*	*

Table 12- Estimates of Area, Production, and Yield of Temporary Crops
for Private Peasant Holdings for Meher Season
2001/02 (1994 E.C.)

Dire Dawa Administration

Crop	Area		Production		Yield
	Hectares	%	Quintals	%	QT/HA
TOTAL	6,778.91	100.00	104,890.23	100.00	
Cereals.....	6,425.90	94.79	89,096.81	84.94	
Teff.....	-	-	-	-	-
Barley.....	*	*	*	*	*
Wheat.....	*	*	*	*	*
Maize.....	257.46	3.80	3,299.87	3.15	12.82
Sorghum.....	6,160.24	90.87	85,749.42	81.75	13.92
Finger millet.....	*	*	-	-	-
Oats/'Aja'.....	*	*	*	*	*
Rice.....	-	-	-	-	-
Pulses.....	203.63	3.00	2,139.11	2.04	
Horse beans.....	-	-	-	-	-
Field peas.....	-	-	-	-	-
Haricot beans.....	201.21	2.97	2,126.76	2.03	10.57
Chick-peas.....	-	-	-	-	-
Lentils.....	-	-	-	-	-
Vetch.....	-	-	-	-	-
Soya beans.....	-	-	-	-	-
Fenugreek.....	*	*	*	*	*
Gibto.....	-	-	-	-	-
Oilseeds.....	34.36	.51	224.13	.21	
Neug.....	-	-	-	-	-
Linseed.....	-	-	-	-	-
Groundnuts.....	24.57	.36	*	*	*
Sufflower.....	-	-	-	-	-
Sesame.....	*	*	*	*	*
Rapeseed.....	-	-	-	-	-
Vegetables.....	29.57	.44	4,398.22	4.19	
Lettuce.....	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-
Ethiopian Cabbage.....	-	-	-	-	-
Tomatoes.....	29.32	.43	4,398.22	4.19	150.01
Green peppers.....	*	*	-	-	-
Red peppers.....	-	-	-	-	-
Swiss chard.....	-	-	-	-	-
Root Crops.....	85.44	1.26	9,031.96	8.61	
Beetroot.....	-	-	-	-	-
Carrot.....	-	-	-	-	-
Onion.....	*	*	*	*	*
Potatoes.....	*	*	*	*	*
Garlic.....	*	*	-	-	-
Taro/'Godere'.....	-	-	-	-	-
Sweet potatoes.....	64.44	.95	6,443.74	6.14	100.00

APPENDIXES

- APPENDIX 1 - Estimation Procedures of Totals, Ratios and Sampling Errors
- APPENDIX 2 - Standard Errors and Coefficient of Variations (CVs.)
- APPENDIX 3 - Number of EAs and Agricultural Households Sampled and Covered by Zone
- APPENDIX 4 - Relevant Questionnaires

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 (Wereda).

1. Estimation of Total Area of Land under Specific Crop:

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

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 number of sample agricultural households successfully covered in the i^{th} sample EA in the h^{th} stratum.

a_{hi} is the sample total of values of area in the i^{th} EA in the h^{th} stratum under a specific crop.

\hat{A}_h is estimate of total area under specific crop in the h^{th} stratum.

2. Estimation of Total Production:

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

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

Where, \bar{Y}_{hi} is average yield per square meter of a specific crop in the i^{th} EA in the h^{th} stratum as defined below for different crops.

Crop	Formula for \bar{Y}_{hi}
Cereals, pulses and oilseeds	$\bar{Y}_{hi} = \frac{Y_{hi}}{16C_{hi}}$
Root-crops and vegetables (broadcast type)	$\bar{Y}_{hi} = \frac{Y_{hi}}{C_{hi}}$
Root-crops and vegetables (row type)	$\bar{Y}_{hi} = \frac{Y_{hi}}{r * C_{hi}}$

Where, $r = \frac{a^*}{n-1}$

a^* = Sum of area measured from Row 1 to Row n in meter.

n = Number of rows ($2 \leq n \leq 5$).

Note: W_{hi} and a_{hi} are as defined above.

Where: Y_{hi} is sampled total of production of a specific crop from defined area of land for crop cutting of crop in the i^{th} EA in the h^{th} stratum.

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

\bar{Y}_{hi} is average yield per square meter of a specific crop in the i^{th} EA in the h^{th} stratum.

P_{hi} is estimate of total production of a specific crop in the i^{th} EA in the h^{th} stratum.

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

3. Estimate of Yield of a Specific Crop in Stratum h is given by:

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

4. Sampling Variance of Estimates:

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

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

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

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

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 Wereda h .

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

Since all strata are independent, the total variance at zonal, regional and country level is computed by aggregating the result obtained at wereda level, i.e.

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

Where, L is the number of strata (Weredas).

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 respectively by:

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

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

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

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

$$\hat{Y}_h + 1.96 * S.E(\hat{Y}_h)$$

$$\text{Where, } S.E(\hat{Y}_h) = \sqrt{\text{Var}(\hat{Y}_h)}$$

APPENDIX 2

Table 1- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Ethiopia

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	7,998,635.40	41,996.77	.53	113,609,242.99	718,035.81	.63
Cereals	6,370,105.57	34,999.43	.55	87,068,275.50	586,301.98	.67
Teff.	1,818,374.64	16,870.73	.93	16,273,155.32	179,430.25	1.10
Barley.....	771,514.77	11,736.23	1.52	9,319,063.02	186,602.26	2.00
Wheat	1,004,999.97	13,184.93	1.31	14,444,338.16	226,655.29	1.57
Maize	1,323,037.53	13,153.14	.99	28,002,088.27	351,083.56	1.25
Sorghum.....	1,132,495.63	14,305.17	1.26	15,462,080.40	229,673.83	1.49
Finger millet.....	281,455.23	6,399.25	2.27	3,061,837.86	80,340.03	2.62
Oats/'Aja'.....	29,862.96	1,002.73	3.36	351,592.09	13,971.48	3.97
Rice.	8,364.84	1,500.70	17.94	154,120.38	30,602.69	19.86
Pulses.	1,016,786.04	9,548.11	.94	10,212,146.50	110,357.00	1.08
Horse beans.....	369,150.83	4,535.98	1.23	4,470,626.40	66,158.98	1.48
Field peas.....	175,221.80	3,398.74	1.94	1,472,697.30	34,587.35	2.35
Haricot beans.....	119,879.32	2,941.48	2.45	986,737.74	30,892.34	3.13
Chick-peas.....	184,800.88	4,271.63	2.31	1,798,213.35	45,745.11	2.54
Lentils.....	60,138.28	1,868.27	3.11	384,296.02	15,612.56	4.06
Vetch	83,522.59	2,680.44	3.21	923,390.71	32,738.65	3.55
Soya beans.....	1,769.47	222.26	12.56	16,205.35	3,795.68	23.42
Fenugreek.....	15,050.50	775.05	5.15	100,265.85	6,272.72	6.26
Gibto	7,252.36	746.42	10.29	59,713.78	6,244.73	10.46
Oilseeds.....	426,129.77	7,038.40	1.65	2,081,356.99	44,016.16	2.11
Neug.	232,201.06	5,299.96	2.28	841,895.92	22,340.76	2.65
Linseed.....	98,595.71	2,774.17	2.81	510,517.51	17,996.36	3.53
Groundnuts.....	16,034.73	1,508.93	9.41	132,851.20	15,014.01	11.30
Sunflower.....	5,474.33	454.52	8.30	37,662.27	3,715.21	9.86
Sesame.....	58,780.38	3,127.92	5.32	388,995.38	26,084.68	6.71
Rapeseed.....	15,043.55	728.47	4.84	169,434.71	11,127.40	6.57
Vegetables.....	74,986.19	2,092.02	2.79	2,886,097.17	86,148.45	2.98
Lettuce.....	127.97	32.96	25.75	11,409.99	3,263.36	28.60
Head Cabbage.....	563.79	111.81	19.83	65,814.97	13,402.85	20.36
Ethiopian Cabbage....	14,528.37	591.42	4.07	1,436,803.67	58,990.58	4.11
Tomatoes.....	1,545.39	252.52	16.34	230,551.53	37,877.03	16.43
Green peppers.....	3,728.00	152.78	4.10	360,388.79	15,219.40	4.22
Red peppers.....	54,376.32	1,964.00	3.61	770,349.29	41,866.07	5.43
Swiss chard.....	116.34	26.65	22.90	10,778.93	2,525.87	23.43
Root Crops.....	110,627.84	2,396.42	2.17	11,361,366.84	251,723.21	2.22
Beetroot.....	404.98	39.16	9.67	52,300.75	5,087.83	9.73
Carrot.....	578.23	73.38	12.69	70,197.07	8,950.72	12.75
Onion	10,488.50	544.88	5.20	1,404,568.78	73,523.01	5.23
Potatoes.....	36,735.89	1,951.42	5.31	3,852,580.64	204,901.22	5.32
Garlic.....	4,801.98	249.79	5.20	704,707.29	37,441.18	5.31
Taro/'Godere'.....	23,590.91	686.04	2.91	1,885,508.45	54,878.01	2.91
Sweet potatoes.....	34,027.35	869.82	2.56	3,391,503.85	86,958.87	2.56

Table 2- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Tigray Region

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	537,572.86	13,651.88	2.54	6,510,626.66	166,047.78	2.55
Cereals	462,525.86	12,873.20	2.78	5,769,783.57	159,531.12	2.76
Teff	124,698.64	4,101.08	3.29	1,028,500.35	33,871.30	3.29
Barley.....	53,237.55	1,437.43	2.70	589,088.78	17,914.49	3.04
Wheat	63,215.93	1,985.69	3.14	744,801.82	24,965.19	3.35
Maize	52,217.67	3,331.02	6.38	894,972.01	63,314.75	7.07
Sorghum.....	114,058.73	4,798.73	4.21	1,923,492.34	85,847.51	4.46
Finger millet.....	54,693.25	3,142.77	5.75	585,774.50	30,882.58	5.27
Oats/'Aja'.....	404.09	90.93	22.50	3,153.76	773.34	24.52
Rice.....	-	-	-	-	-	-
Pulses.....	42,714.51	1,219.80	2.86	432,963.34	13,202.50	3.05
Horse beans.....	14,988.12	557.72	3.72	199,150.69	8,325.12	4.18
Field peas.....	3,397.93	226.06	6.65	37,094.03	2,752.00	7.42
Haricot beans.....	2,292.95	547.65	23.88	9,987.43	1,969.20	19.72
Chick-peas.....	11,158.64	645.74	5.79	103,037.73	6,983.86	6.78
Lentils.....	4,587.49	370.92	8.09	29,952.22	2,452.58	8.19
Vetch	5,794.56	433.45	7.48	51,752.58	4,631.24	8.95
Soya beans.....	50.60	16.27	32.16	130.67	44.60	34.13
Fenugreek.....	444.22	73.17	16.47	1,857.99	361.64	19.46
Gibto	-	-	-	-	-	-
Oilseeds.....	30,633.92	2,025.08	6.61	175,452.86	14,328.23	8.17
Neug.	5,134.73	546.92	10.65	27,141.60	3,055.74	11.26
Linseed.....	4,318.09	253.29	5.87	16,907.29	1,166.92	6.90
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	45.13	12.05	26.71	114.19	31.30	27.41
Sesame.....	21,093.57	1,999.81	9.48	131,119.66	14,535.17	11.09
Rapeseed.....	30.87	8.86	28.71	97.46	41.15	42.22
Vegetables.....	962.21	103.10	10.71	39,963.15	3,495.56	8.75
Lettuce.....	8.52	3.45	40.47	851.65	344.65	40.47
Head Cabbage.....	15.17	5.95	39.22	1,639.16	698.13	42.59
Ethiopian Cabbage....	13.02	5.68	43.65	576.02	201.88	35.05
Tomatoes.....	76.19	14.98	19.66	11,428.20	2,247.32	19.66
Green peppers.....	185.85	20.71	11.15	17,826.65	2,002.69	11.23
Red peppers.....	653.94	98.77	15.10	6,497.35	794.32	12.23
Swiss chard.....	9.53	2.58	27.06	1,144.14	309.58	27.06
Root Crops.....	736.36	72.24	9.81	92,463.74	8,833.55	9.55
Beetroot.....	*	*	*	*	*	*
Carrot.....	38.21	13.97	36.55	4,649.59	1,704.21	36.65
Onion.....	265.96	36.42	13.69	35,602.93	4,916.67	13.81
Potatoes.....	263.84	46.06	17.46	27,669.89	4,836.79	17.48
Garlic.....	160.99	19.55	12.15	23,661.34	2,921.04	12.35
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	1.69	.73	43.31	143.89	69.47	48.28

Table 2.1- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Tigray Region
West Tigray Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	178,287.95	11,781.73	6.61	2,278,475.62	141,000.94	6.19
Cereals	146,410.17	11,205.70	7.65	2,041,291.33	135,459.63	6.64
Teff	29,281.11	2,825.60	9.65	236,737.55	19,577.83	8.27
Barley.....	1,319.70	303.27	22.98	17,116.17	4,114.33	24.04
Wheat	516.42	127.72	24.73	7,384.18	1,887.17	25.56
Maize	23,510.50	3,121.93	13.28	465,028.15	59,848.77	12.87
Sorghum.....	54,225.86	3,686.62	6.80	877,979.92	63,660.84	7.25
Finger millet.....	37,543.68	2,991.13	7.97	437,045.37	29,611.90	6.78
Oats/'Aja'.....	12.91	6.39	49.53	-	-	-
Rice.....	-	-	-	-	-	-
Pulses.....	5,797.41	430.73	7.43	57,901.55	5,086.96	8.79
Horse beans.....	1,686.62	185.04	10.97	19,390.94	2,603.67	13.43
Field peas.....	354.46	86.31	24.35	3,441.31	1,008.11	29.29
Haricot beans.....	100.84	29.28	29.04	976.19	324.32	33.22
Chick-peas.....	3,416.85	381.00	11.15	32,588.90	4,324.26	13.27
Lentils.....	*	*	*	*	*	*
Vetch	180.94	58.12	32.12	1,290.18	372.52	28.87
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	53.60	20.62	38.48	188.20	72.95	38.76
Gibto	-	-	-	-	-	-
Oilseeds.....	25,433.12	2,003.38	7.88	155,622.73	14,268.12	9.17
Neug.	4,242.42	537.15	12.66	24,113.14	3,035.00	12.59
Linseed.....	540.09	78.96	14.62	2,262.90	349.73	15.45
Groundnuts.....	*	*	*	*	*	*
Sunflower.....	*	*	*	*	*	*
Sesame.....	20,624.05	1,996.20	9.68	129,094.22	14,524.04	11.25
Rapeseed.....	14.64	6.13	41.88	79.81	39.74	49.80
Vegetables.....	580.43	97.37	16.78	14,760.25	1,693.20	11.47
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage.....	*	*	*	*	*	*
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	90.68	14.02	15.47	9,068.10	1,402.43	15.47
Red peppers.....	474.49	96.17	20.27	4,540.97	736.97	16.23
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	66.81	17.85	26.72	8,899.76	2,289.09	25.72
Beetroot.....	-	-	-	-	-	-
Carrot.....	*	*	*	*	*	*
Onion	35.92	12.66	35.25	4,849.15	1,709.10	35.25
Potatoes.....	*	*	*	*	*	*
Garlic.....	18.74	5.97	31.83	2,811.60	894.93	31.83
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 2.2- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Tigray Region
Central Tigray Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	161,431.04	4,730.70	2.93	1,575,718.75	48,328.53	3.07
Cereals	142,910.31	4,531.10	3.17	1,395,631.98	47,593.25	3.41
Teff	52,065.86	2,154.12	4.14	365,174.28	17,480.58	4.79
Barley.....	12,742.64	615.04	4.83	112,013.14	6,338.41	5.66
Wheat	14,538.65	940.46	6.47	143,253.09	10,630.93	7.42
Maize	18,794.66	943.83	5.02	276,201.30	15,398.26	5.58
Sorghum.....	30,787.64	2,117.64	6.88	381,026.43	28,545.27	7.49
Finger millet.....	13,966.08	909.32	6.51	117,801.09	8,038.70	6.82
Oats/'Aja'.....	*	*	*	*	*	*
Rice.....	-	-	-	-	-	-
Pulses	15,426.13	725.47	4.70	134,043.03	7,113.28	5.31
Horse beans.....	6,987.94	407.83	5.84	78,511.91	4,947.13	6.30
Field peas.....	612.03	76.45	12.49	4,485.54	557.38	12.43
Haricot beans.....	1,139.71	280.64	24.62	6,410.49	1,633.40	25.48
Chick-peas.....	3,292.02	351.05	10.66	23,170.00	2,936.77	12.67
Lentils.....	1,164.73	158.65	13.62	6,416.43	1,020.76	15.91
Vetch	1,871.62	236.80	12.65	13,573.01	1,956.35	14.41
Soya beans.....	31.34	13.92	44.43	86.01	38.43	44.68
Fenugreek.....	326.74	69.09	21.15	1,389.64	349.29	25.14
Gibto	-	-	-	-	-	-
Oilseeds.....	2,723.21	179.63	6.60	10,017.25	747.96	7.47
Neug.	857.61	102.38	11.94	2,928.48	354.11	12.09
Linseed.....	1,602.59	134.57	8.40	5,797.80	538.11	9.28
Groundnuts.....	-	-	-	-	-	-
Safflower.....	6.55	2.29	34.93	18.17	6.84	37.62
Sesame.....	252.33	81.89	32.46	1,259.98	488.40	38.76
Rapeseed.....	*	*	*	*	*	*
Vegetables.....	170.49	19.04	11.17	10,060.51	1,409.63	14.01
Lettuce.....	2.01	.94	46.86	201.06	94.22	46.86
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	2.44	1.06	43.22	244.15	105.52	43.22
Tomatoes.....	18.14	5.18	28.58	2,721.45	777.66	28.58
Green peppers.....	53.36	8.94	16.75	5,302.43	894.75	16.87
Red peppers.....	92.77	14.49	15.62	1,380.00	276.55	20.04
Swiss chard.....	1.70	.65	38.28	203.75	77.99	38.28
Root Crops.....	200.90	34.21	17.03	25,966.00	4,479.96	17.25
Beetroot.....	*	*	*	*	*	*
Carrot.....	5.29	2.56	48.35	644.81	311.76	48.35
Onion.....	99.41	23.00	23.14	13,119.34	3,105.27	23.67
Potatoes.....	42.68	13.43	31.47	4,481.58	1,410.53	31.47
Garlic.....	52.31	8.86	16.93	7,579.60	1,315.42	17.35
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 2.3- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Tigray Region
East Tigray Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	51,641.31	1,837.24	3.56	634,152.93	23,588.46	3.72
Cereals	44,136.20	1,588.12	3.60	535,116.52	21,463.13	4.01
Teff	5,730.06	459.99	8.03	54,973.79	5,719.52	10.40
Barley	16,288.11	701.50	4.31	202,115.22	9,656.67	4.78
Wheat	14,459.08	672.35	4.65	174,703.14	8,692.51	4.98
Maize	3,094.47	240.73	7.78	48,116.14	5,404.41	11.23
Sorghum	1,965.99	281.16	14.30	29,963.79	6,099.85	20.36
Finger millet	2,521.88	295.32	11.71	24,559.11	3,245.47	13.21
Oats/'Aja'	76.61	24.90	32.50	685.35	236.42	34.50
Rice	-	-	-	-	-	-
Pulses	6,636.71	428.56	6.46	78,475.73	5,565.48	7.09
Horse beans	1,691.36	127.66	7.55	26,897.43	2,373.78	8.83
Field peas	1,047.34	132.65	12.67	13,136.48	1,638.71	12.47
Haricot beans	15.42	6.38	41.39	69.18	27.48	39.72
Chick-peas	1,512.34	218.53	14.45	15,050.15	2,280.33	15.15
Lentils	543.90	78.10	14.36	4,426.44	601.14	13.58
Vetch	1,799.14	262.14	14.57	18,789.81	3,338.30	17.77
Soya beans	*	*	*	-	-	-
Fenugreek	23.91	7.99	33.42	106.24	40.58	38.20
Gibto	-	-	-	-	-	-
Oilseeds	706.09	81.96	11.61	2,735.08	375.54	13.73
Neug	12.62	5.76	45.65	42.60	21.12	49.57
Linseed	679.24	81.17	11.95	2,687.65	375.29	13.96
Groundnuts	-	-	-	-	-	-
Sufflower	*	*	*	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	12.10	5.45	45.03	4.84	2.18	45.03
Vegetables	42.81	8.88	20.74	4,548.62	910.98	20.03
Lettuce	.48	.21	44.27	48.04	21.27	44.27
Head Cabbage	2.39	1.00	41.88	261.86	119.24	45.54
Ethiopian Cabbage	*	*	*	-	-	-
Tomatoes	21.02	5.06	24.07	3,153.20	759.04	24.07
Green peppers	8.13	2.68	32.99	812.81	268.16	32.99
Red peppers	*	*	*	*	*	*
Swiss chard	1.95	.67	34.47	234.27	80.76	34.47
Root Crops	119.49	34.08	28.52	13,276.97	3,709.92	27.94
Beetroot	*	*	*	-	-	-
Carrot	*	*	*	*	*	*
Onion	18.69	6.15	32.93	2,523.25	830.81	32.93
Potatoes	91.88	30.22	32.90	9,647.67	3,173.62	32.90
Garlic	1.17	.51	43.47	175.69	76.38	43.47
Taro/'Godere'	-	-	-	-	-	-
Sweet potatoes	*	*	*	*	*	*

Table 2.4- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Tigray Region
South Tigray Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	146,212.57	4,670.08	3.19	2,022,279.35	69,271.49	3.43
Cereals	129,069.17	4,135.02	3.20	1,797,743.74	66,144.43	3.68
Teff.	37,621.61	1,995.74	5.30	371,614.73	20,632.26	5.55
Barley.....	22,887.09	1,050.64	4.59	257,844.26	13,060.41	5.07
Wheat	33,701.79	1,609.39	4.78	419,461.41	20,763.49	4.95
Maize	6,818.05	632.83	9.28	105,626.43	12,671.54	12.00
Sorghum.....	27,079.24	2,207.54	8.15	634,522.20	49,649.29	7.82
Finger millet.....	661.60	126.90	19.18	6,368.94	1,309.67	20.56
Oats/'Aja'.....	299.79	86.84	28.97	2,305.78	730.75	31.69
Rice.	-	-	-	-	-	-
Pulses	14,854.26	769.68	5.18	162,543.03	8,176.53	5.03
Horse beans.....	4,622.20	306.90	6.64	74,350.41	5,693.83	7.66
Field peas.....	1,384.10	142.18	10.27	16,030.71	1,887.11	11.77
Haricot beans.....	1,036.98	469.32	45.26	2,531.57	1,050.63	41.50
Chick-peas.....	2,937.44	317.54	10.81	32,228.68	4,031.19	12.51
Lentils.....	2,874.76	326.03	11.34	19,083.51	2,147.37	11.25
Vetch	1,942.85	244.35	12.58	18,099.58	2,517.54	13.91
Soya beans.....	*	*	*	*	*	*
Fenugreek.....	39.97	9.56	23.91	173.91	42.63	24.51
Gibto	-	-	-	-	-	-
Oilseeds.....	1,771.50	220.02	12.42	7,077.80	1,009.19	14.26
Neug.	22.09	8.54	38.67	57.38	22.25	38.78
Linseed.....	1,496.16	182.28	12.18	6,158.95	899.43	14.60
Groundnuts.....	-	-	-	-	-	-
Sufflower.....	36.05	11.73	32.55	96.02	30.54	31.81
Sesame.....	217.19	87.88	40.46	765.46	291.42	38.07
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	168.49	26.60	15.79	10,593.78	2,556.37	24.13
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	11.53	5.73	49.71	*	*	*
Ethiopian Cabbage.....	*	*	*	*	*	*
Tomatoes.....	30.04	12.54	41.76	4,505.55	1,881.52	41.76
Green peppers.....	33.68	12.05	35.78	2,643.30	1,082.35	40.95
Red peppers.....	78.99	16.19	20.50	537.93	102.32	19.02
Swiss chard.....	5.62	2.40	42.62	674.95	287.67	42.62
Root Crops.....	349.15	50.68	14.51	44,321.01	6,241.64	14.08
Beetroot.....	*	*	*	*	*	*
Carrot.....	25.72	12.58	48.92	3,137.49	1,535.01	48.92
Onion	111.93	24.48	21.87	15,111.19	3,304.50	21.87
Potatoes.....	117.47	30.43	25.90	12,301.64	3,195.25	25.97
Garlic.....	88.77	16.37	18.44	13,094.46	2,448.56	18.70
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 3- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Afar Region

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	8,836.75	454.57	5.14	116,757.70	19,089.68	16.35
Cereals	8,290.75	425.15	5.13	75,243.50	4,845.83	6.44
Teff.	694.64	40.32	5.80	3,433.15	190.00	5.53
Barley.....	21.41	2.72	12.72	159.83	20.61	12.89
Wheat	50.16	6.79	13.54	194.31	24.00	12.35
Maize	6,100.41	419.17	6.87	60,515.64	4,794.39	7.92
Sorghum.....	1,404.78	63.68	4.53	10,940.59	527.17	4.82
Finger millet.....	*	*	*	-	-	-
Oats/'Aja'.....	-	-	-	-	-	-
Rice.	-	-	-	-	-	-
Pulses.	103.20	12.71	12.31	288.14	32.28	11.20
Horse beans.....	*	*	*	*	*	*
Field peas.....	*	*	*	*	*	*
Haricot beans.....	35.05	5.68	16.22	139.29	22.20	15.94
Chick-peas.....	59.56	8.16	13.70	138.19	19.07	13.80
Lentils.....	3.17	1.08	34.11	.32	.11	34.11
Vetch	-	-	-	-	-	-
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	*	*	*	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	142.10	62.18	43.76	747.61	362.28	48.46
Neug. ....	.58	.23	40.32	1.46	.60	40.93
Linseed.....	*	*	*	*	*	*
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	10.76	2.15	20.02	32.83	7.13	21.72
Sesame.....	*	*	*	*	*	*
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	*	*	*	*	*	*
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	*	*	*	-	-	-
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	2.04	.99	48.64	*	*	*
Red peppers.....	5.48	1.69	30.81	86.55	35.28	40.76
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	235.78	114.87	48.72	31,781.74	15,507.02	48.79
Beetroot.....	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-
Onion	234.40	114.88	49.01	31,644.39	15,508.55	49.01
Potatoes.....	*	*	*	-	-	-
Garlic.....	-	-	-	-	-	-
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 3.1- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Afar Region
Zone 1

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	5,267.79	358.10	6.80	49,814.04	3,520.86	7.07
Cereals	5,234.07	358.31	6.85	49,640.98	3,507.61	7.07
Teff.	-	-	-	-	-	-
Barley.....	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	5,150.66	359.99	6.99	48,816.55	3,472.03	7.11
Sorghum.....	64.05	29.91	46.69	824.43	330.13	40.04
Finger millet.....	*	*	*	-	-	-
Oats/'Aja'.....	-	-	-	-	-	-
Rice.	-	-	-	-	-	-
Pulses.	*	*	*	-	-	-
Horse beans.....	-	-	-	-	-	-
Field peas.....	-	-	-	-	-	-
Haricot beans.....	*	*	*	-	-	-
Chick-peas.....	-	-	-	-	-	-
Lentils.....	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	26.28	9.65	36.73	167.92	77.12	45.93
Neug.	-	-	-	-	-	-
Linseed.....	*	*	*	-	-	-
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	-	-	-	-	-	-
Sesame.....	19.50	8.64	44.32	167.50	77.00	45.97
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	*	*	*	*	*	*
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	-	-	-	-	-	-
Tomatoes.....	-	-	-	-	-	-
Green peppers.....	*	*	*	-	-	-
Red peppers.....	*	*	*	*	*	*
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	-	-	-	-	-	-
Beetroot.....	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-
Onion	-	-	-	-	-	-
Potatoes.....	-	-	-	-	-	-
Garlic.....	-	-	-	-	-	-
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	-	-	-	-	-	-

Table 3.2- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Afar Region
Zone 3

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	3,568.97	279.99	7.85	66,943.66	18,762.18	28.03
Cereals	3,056.68	228.84	7.49	25,602.52	3,343.46	13.06
Teff.	694.64	40.32	5.80	3,433.15	190.00	5.53
Barley.....	21.41	2.72	12.72	159.83	20.61	12.89
Wheat	50.16	6.79	13.54	194.31	24.00	12.35
Maize	949.75	214.73	22.61	11,699.09	3,306.24	28.26
Sorghum.....	1,340.72	56.22	4.19	10,116.15	411.00	4.06
Finger millet.....	-	-	-	-	-	-
Oats/'Aja'.....	-	-	-	-	-	-
Rice.	-	-	-	-	-	-
Pulses.	97.20	12.17	12.52	288.14	32.28	11.20
Horse beans.....	*	*	*	*	*	*
Field peas.....	*	*	*	*	*	*
Haricot beans.....	29.04	4.36	15.01	139.29	22.20	15.94
Chick-peas.....	59.56	8.16	13.70	138.19	19.07	13.80
Lentils.....	3.17	1.08	34.11	.32	.11	34.11
Vetch	-	-	-	-	-	-
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	*	*	*	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	*	*	*	*	*	*
Neug. ....	.58	.23	40.32	1.46	.60	40.93
Linseed.....	*	*	*	*	*	*
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	10.76	2.15	20.02	32.83	7.13	21.72
Sesame.....	*	*	*	*	*	*
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	*	*	*	*	*	*
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	*	*	*	-	-	-
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	*	*	*	*	*	*
Red peppers.....	4.46	1.43	32.11	81.41	34.99	42.98
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	235.78	114.87	48.72	31,781.74	15,507.02	48.79
Beetroot.....	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-
Onion	234.40	114.88	49.01	31,644.39	15,508.55	49.01
Potatoes.....	*	*	*	-	-	-
Garlic.....	-	-	-	-	-	-
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 4- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Amhara Region

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	2,913,588.60	26,835.19	.92	35,070,875.62	384,063.84	1.10
Cereals	2,216,029.07	21,476.81	.97	27,144,178.82	335,158.08	1.23
Teff.	778,202.03	11,735.22	1.51	6,973,002.40	128,560.59	1.84
Barley.....	274,628.32	6,934.86	2.53	3,127,282.40	99,243.59	3.17
Wheat	286,246.58	7,367.37	2.57	3,537,726.33	108,759.70	3.07
Maize	296,356.11	5,292.92	1.79	6,374,895.81	163,326.43	2.56
Sorghum.....	409,473.20	10,302.55	2.52	5,226,285.11	157,724.37	3.02
Finger millet.....	155,526.83	5,294.29	3.40	1,678,717.62	68,827.83	4.10
Oats/'Aja'.....	8,996.12	600.95	6.68	94,339.17	6,819.41	7.23
Rice.	6,599.88	1,486.11	22.52	131,929.98	30,482.70	23.11
Pulses.	488,183.62	7,204.37	1.48	4,920,234.01	83,388.01	1.69
Horse beans.....	168,944.71	3,382.30	2.00	2,101,390.03	49,390.01	2.35
Field peas.....	78,144.77	2,206.38	2.82	640,910.81	20,693.96	3.23
Haricot beans.....	22,518.39	1,630.24	7.24	169,182.07	15,268.52	9.02
Chick-peas.....	109,431.99	3,468.10	3.17	1,038,747.98	38,082.85	3.67
Lentils.....	40,120.86	1,597.87	3.98	259,856.63	13,633.06	5.25
Vetch	53,966.46	2,335.77	4.33	591,933.40	27,753.32	4.69
Soya beans.....	250.80	101.29	40.39	2,065.92	904.49	43.78
Fenugreek.....	7,589.06	566.09	7.46	56,828.13	5,044.54	8.88
Gibto	7,216.57	746.31	10.34	59,319.04	6,242.64	10.52
Oilseeds.....	176,212.43	5,171.40	2.93	849,384.63	33,703.81	3.97
Neug.	119,547.94	4,347.32	3.64	450,479.57	18,916.79	4.20
Linseed.....	23,823.58	992.25	4.16	97,426.90	5,378.17	5.52
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	4,232.82	434.02	10.25	29,411.52	3,522.25	11.98
Sesame.....	18,111.31	2,119.39	11.70	132,630.80	20,095.44	15.15
Rapeseed.....	8,806.03	522.70	5.94	122,592.55	9,867.26	8.05
Vegetables.....	17,281.27	889.19	5.15	338,913.11	25,019.81	7.38
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	68.57	19.75	28.81	8,216.13	2,370.58	28.85
Ethiopian Cabbage....	295.07	34.62	11.73	28,770.53	3,453.37	12.00
Tomatoes.....	272.50	101.44	37.22	40,647.20	15,215.12	37.43
Green peppers.....	659.37	58.52	8.88	63,436.14	5,828.48	9.19
Red peppers.....	15,950.20	877.53	5.50	194,372.40	16,205.43	8.34
Swiss chard.....	21.60	7.14	33.07	2,534.44	856.49	33.79
Root Crops.....	15,882.21	832.97	5.24	1,818,165.06	90,304.32	4.97
Beetroot.....	55.08	14.28	25.93	7,122.40	1,856.38	26.06
Carrot.....	110.52	25.34	22.93	13,388.58	3,091.46	23.09
Onion	2,227.98	193.03	8.66	295,650.62	26,006.61	8.80
Potatoes.....	11,098.68	791.96	7.14	1,164,293.93	83,162.38	7.14
Garlic.....	2,187.12	116.25	5.32	320,664.85	17,415.29	5.43
Taro/'Godere'.....	*	*	*	-	-	-
Sweet potatoes.....	187.60	60.83	32.42	17,044.68	5,979.42	35.08

Table 4.1- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Amhara Region
North Gonder Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	488,238.18	11,060.47	2.27	5,329,278.53	155,560.89	2.92
Cereals	368,357.91	8,938.81	2.43	4,129,947.18	133,108.46	3.22
Teff	100,588.16	4,113.61	4.09	804,839.58	39,435.33	4.90
Barley	40,525.81	2,252.17	5.56	432,215.43	30,785.27	7.12
Wheat	32,953.30	2,650.28	8.04	318,569.97	27,280.11	8.56
Maize	35,411.34	1,505.84	4.25	592,042.51	30,894.56	5.22
Sorghum	125,980.17	6,189.97	4.91	1,609,281.70	102,849.01	6.39
Finger millet	30,162.54	1,872.91	6.21	348,347.86	24,284.53	6.97
Oats/'Aja'	2,224.12	372.96	16.77	20,383.77	3,731.63	18.31
Rice	512.47	116.73	22.78	4,266.36	994.49	23.31
Pulses	75,801.00	2,966.85	3.91	750,900.87	34,845.18	4.64
Horse beans	23,552.20	1,446.06	6.14	281,308.37	19,623.44	6.98
Field peas	12,101.64	1,015.84	8.39	101,586.58	9,801.71	9.65
Haricot beans	2,895.42	656.03	22.66	8,059.54	2,094.61	25.99
Chick-peas	27,521.15	2,163.26	7.86	280,472.47	25,923.19	9.24
Lentils	5,367.40	812.67	15.14	39,838.47	6,698.43	16.81
Vetch	2,333.98	366.49	15.70	24,594.10	4,002.39	16.27
Soya beans	*	*	*	-	-	-
Fenugreek	1,989.95	365.14	18.35	15,014.20	3,106.21	20.69
Gibto	*	*	*	*	*	*
Oilseeds	39,562.57	2,533.21	6.40	223,818.73	21,779.25	9.73
Neug.	21,171.06	1,440.67	6.80	97,250.96	7,887.07	8.11
Linseed	3,631.06	273.37	7.53	13,073.22	1,537.81	11.76
Groundnuts	*	*	*	-	-	-
Sufflower	1,543.51	345.43	22.38	11,603.14	3,068.23	26.44
Sesame	12,705.38	2,034.94	16.02	97,239.78	19,696.39	20.26
Rapeseed	510.58	106.80	20.92	4,651.63	1,284.32	27.61
Vegetables	3,163.28	423.86	13.40	63,497.27	12,441.52	19.59
Lettuce	*	*	*	-	-	-
Head Cabbage	*	*	*	-	-	-
Ethiopian Cabbage	20.84	4.91	23.56	2,063.53	490.90	23.79
Tomatoes	*	*	*	*	*	*
Green peppers	101.66	18.34	18.04	10,153.10	1,834.04	18.06
Red peppers	2,989.13	423.78	14.18	44,474.55	11,766.40	26.46
Swiss chard	*	*	*	*	*	*
Root Crops	1,353.42	238.04	17.59	161,114.48	26,818.85	16.65
Beetroot	*	*	*	*	*	*
Carrot	*	*	*	*	*	*
Onion	135.49	41.90	30.92	18,291.82	5,656.09	30.92
Potatoes	847.99	215.21	25.38	89,022.89	22,597.05	25.38
Garlic	346.58	77.92	22.48	51,987.69	11,687.90	22.48
Taro/'Godere'	-	-	-	-	-	-
Sweet potatoes	*	*	*	-	-	-

Table 4.2- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Amhara Region
South Gonder Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	374,072.11	10,329.49	2.76	3,913,269.56	133,240.52	3.40
Cereals	262,202.31	7,742.95	2.95	2,639,448.82	95,558.92	3.62
Teff.	108,484.64	4,548.59	4.19	865,259.82	47,688.25	5.51
Barley.....	37,655.43	2,905.44	7.72	359,548.05	30,757.40	8.55
Wheat	33,752.77	3,758.39	11.14	347,664.25	36,521.07	10.50
Maize	33,813.78	1,779.17	5.26	546,430.91	40,949.61	7.49
Sorghum.....	17,531.29	1,781.26	10.16	146,381.07	16,205.71	11.07
Finger millet.....	24,711.47	1,853.21	7.50	245,641.04	21,163.32	8.62
Oats/'Aja'.....	398.72	157.21	39.43	3,547.79	1,530.22	43.13
Rice.	5,854.22	1,479.95	25.28	124,975.88	30,456.10	24.37
Pulses.	78,714.13	3,674.91	4.67	696,513.80	33,172.94	4.76
Horse beans.....	22,043.99	1,503.61	6.82	258,658.19	18,944.12	7.32
Field peas.....	12,082.13	1,094.12	9.06	108,963.47	9,921.22	9.11
Haricot beans.....	4,250.51	864.38	20.34	33,297.60	7,757.34	23.30
Chick-peas.....	19,884.73	1,651.26	8.30	158,788.96	14,737.60	9.28
Lentils.....	4,524.37	533.43	11.79	16,958.85	2,182.95	12.87
Vetch	13,580.58	1,433.89	10.56	100,713.82	12,429.93	12.34
Soya beans.....	*	*	*	*	*	*
Fenugreek.....	241.76	91.09	37.68	782.67	254.52	32.52
Gibto	2,061.85	535.15	25.96	17,590.18	4,402.22	25.03
Oilseeds.....	26,387.95	1,992.89	7.55	114,998.55	10,014.00	8.71
Neug.	19,738.85	1,896.09	9.61	79,745.38	9,210.96	11.55
Linseed.....	4,506.28	548.19	12.17	19,556.59	3,135.69	16.03
Groundnuts.....	-	-	-	-	-	-
Sufflower.....	972.76	194.31	19.98	5,547.30	1,128.73	20.35
Sesame.....	*	*	*	*	*	*
Rapeseed.....	1,077.45	173.96	16.15	10,003.04	1,973.11	19.73
Vegetables.....	3,014.91	453.89	15.05	54,575.26	7,907.35	14.49
Lettuce.....	*	*	*	-	-	-
Head Cabbage.....	*	*	*	-	-	-
Ethiopian Cabbage.....	52.27	26.10	49.93	*	*	*
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	31.84	9.05	28.44	3,183.53	905.24	28.44
Red peppers.....	2,881.36	449.97	15.62	39,014.06	6,245.21	16.01
Swiss chard.....	2.86	1.37	47.79	*	*	*
Root Crops.....	3,752.81	623.21	16.61	407,733.14	66,038.91	16.20
Beetroot.....	*	*	*	-	-	-
Carrot.....	*	*	*	*	*	*
Onion	218.99	80.07	36.56	29,257.59	10,805.29	36.93
Potatoes.....	3,318.65	615.09	18.53	348,458.36	64,584.65	18.53
Garlic.....	206.96	29.67	14.33	29,999.30	4,434.57	14.78
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	-	-	-

Table 4.3- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Amhara Region
North Wolo Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	206,241.10	9,198.58	4.46	2,465,819.71	111,145.27	4.51
Cereals	160,420.60	7,575.12	4.72	1,892,934.87	94,086.25	4.97
Teff	52,808.34	4,317.66	8.18	450,881.19	36,153.75	8.02
Barley.....	31,596.67	2,699.69	8.54	444,447.99	53,374.97	12.01
Wheat	19,751.93	1,520.94	7.70	229,479.45	22,135.15	9.65
Maize	6,466.78	1,389.62	21.49	66,488.34	16,654.65	25.05
Sorghum.....	47,217.69	3,654.35	7.74	670,909.27	60,512.35	9.02
Finger millet.....	1,093.60	198.63	18.16	14,745.56	2,881.81	19.54
Oats/'Aja'.....	1,485.59	176.30	11.87	15,983.08	2,451.65	15.34
Rice.	-	-	-	-	-	-
Pulses.	39,952.93	2,345.65	5.87	439,270.15	31,086.07	7.08
Horse beans.....	11,727.79	870.94	7.43	154,971.74	12,724.30	8.21
Field peas.....	8,949.38	672.44	7.51	89,577.19	8,227.87	9.19
Haricot beans.....	1,627.85	480.41	29.51	14,545.75	4,682.22	32.19
Chick-peas.....	8,998.03	863.82	9.60	96,127.01	12,045.75	12.53
Lentils.....	6,486.32	671.07	10.35	52,507.15	7,591.12	14.46
Vetch	1,574.16	289.13	18.37	25,992.04	5,917.99	22.77
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	588.26	139.75	23.76	5,549.28	1,551.64	27.96
Gibto	-	-	-	-	-	-
Oilseeds.....	4,596.64	476.13	10.36	24,955.34	2,924.31	11.72
Neug.	421.55	71.93	17.06	2,936.64	871.92	29.69
Linseed.....	3,060.02	417.52	13.64	13,826.71	2,253.66	16.30
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	423.93	126.29	29.79	3,377.89	956.06	28.30
Sesame.....	608.29	150.16	24.69	4,214.09	1,147.61	27.23
Rapeseed.....	*	*	*	*	*	*
Vegetables.....	641.24	95.44	14.88	22,672.72	3,407.30	15.03
Lettuce.....	*	*	*	-	-	-
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	62.24	14.48	23.26	6,086.92	1,445.61	23.75
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	57.32	15.03	26.22	5,449.50	1,482.10	27.20
Red peppers.....	503.73	90.50	17.96	8,640.00	2,434.08	28.17
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	629.70	79.53	12.63	85,986.64	11,025.89	12.82
Beetroot.....	-	-	-	-	-	-
Carrot.....	*	*	*	*	*	*
Onion	163.00	40.73	24.99	21,769.46	5,497.01	25.25
Potatoes.....	113.78	22.83	20.06	11,947.21	2,396.65	20.06
Garlic.....	343.74	49.92	14.52	51,397.27	7,489.16	14.57
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 4.4- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Amhara Region
South Wolo Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	342,388.07	7,665.27	2.24	4,076,410.15	102,937.45	2.53
Cereals	253,663.08	6,082.24	2.40	2,977,951.35	83,148.09	2.79
Teff	87,360.61	3,629.96	4.16	775,842.05	35,697.22	4.60
Barley	36,833.99	2,980.87	8.09	492,280.95	46,056.75	9.36
Wheat	51,567.76	2,893.21	5.61	628,906.68	41,401.71	6.58
Maize	13,267.04	898.36	6.77	213,991.63	19,908.92	9.30
Sorghum.....	59,588.38	3,663.62	6.15	809,902.98	55,831.03	6.89
Finger millet.....	637.95	107.49	16.85	7,021.80	1,256.07	17.89
Oats/'Aja'.....	4,320.90	398.52	9.22	48,699.83	4,840.84	9.94
Rice.....	86.45	41.06	47.50	1,305.44	620.05	47.50
Pulses	80,306.83	2,789.28	3.47	898,541.61	38,053.18	4.23
Horse beans.....	31,062.48	1,372.17	4.42	442,442.34	25,860.49	5.84
Field peas.....	12,762.62	778.09	6.10	106,192.94	6,966.55	6.56
Haricot beans.....	3,129.62	516.64	16.51	29,573.65	6,655.96	22.51
Chick-peas.....	11,277.21	937.07	8.31	112,690.61	9,738.21	8.64
Lentils.....	10,969.33	778.68	7.10	77,928.41	6,825.62	8.76
Vetch	8,367.05	775.21	9.27	105,359.31	11,268.91	10.70
Soya beans.....	*	*	*	*	*	*
Fenugreek.....	2,726.03	322.87	11.84	24,266.47	3,367.85	13.88
Gibto	*	*	*	*	*	*
Oilseeds.....	6,642.31	484.64	7.30	31,601.93	2,575.17	8.15
Neug.	2,860.02	341.13	11.93	10,565.91	1,138.40	10.77
Linseed.....	2,806.80	260.15	9.27	12,550.12	1,451.97	11.57
Groundnuts.....	*	*	*	-	-	-
Safflower.....	154.83	39.95	25.80	1,530.17	429.82	28.09
Sesame.....	750.38	199.31	26.56	6,477.24	1,685.99	26.03
Rapeseed.....	68.24	15.59	22.85	478.49	147.40	30.81
Vegetables.....	868.93	128.56	14.80	46,829.11	16,975.12	36.25
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	51.30	6.68	13.03	4,916.85	652.33	13.27
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	89.91	19.54	21.73	8,952.60	1,953.63	21.82
Red peppers.....	541.14	49.07	9.07	6,480.93	777.73	12.00
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	906.92	66.80	7.37	121,486.15	8,712.27	7.17
Beetroot.....	21.23	10.49	49.41	2,760.44	1,363.83	49.41
Carrot.....	73.47	22.28	30.33	8,963.34	2,718.16	30.33
Onion	144.93	26.09	18.00	19,081.27	3,510.64	18.40
Potatoes.....	185.97	26.34	14.16	19,444.83	2,767.27	14.23
Garlic.....	473.68	30.80	6.50	70,594.04	4,623.27	6.55
Taro/'Godere'.....	*	*	*	-	-	-
Sweet potatoes.....	6.42	2.66	41.35	642.24	265.59	41.35

Table 4.5- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Amhara Region
North Shewa Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	354,434.56	6,600.30	1.86	3,976,001.16	83,154.21	2.09
Cereals	273,224.82	5,713.72	2.09	2,995,383.81	71,262.94	2.38
Teff.	78,689.62	2,718.63	3.45	630,058.77	22,595.40	3.59
Barley.....	34,348.05	2,052.11	5.97	368,296.27	25,481.52	6.92
Wheat	62,652.99	3,140.46	5.01	738,657.15	49,511.70	6.70
Maize	7,794.63	432.92	5.55	78,331.57	5,381.70	6.87
Sorghum.....	89,334.53	4,138.33	4.63	1,176,045.84	61,761.47	5.25
Finger millet.....	266.73	54.37	20.38	2,819.61	613.06	21.74
Oats/'Aja'.....	138.27	31.30	22.64	1,174.61	269.06	22.91
Rice.	-	-	-	-	-	-
Pulses.	72,659.95	2,031.85	2.80	731,295.02	24,439.86	3.34
Horse beans.....	30,835.17	1,213.75	3.94	387,642.32	18,097.91	4.67
Field peas.....	9,873.19	552.66	5.60	66,177.62	4,055.29	6.13
Haricot beans.....	2,017.12	173.42	8.60	14,136.53	1,508.65	10.67
Chick-peas.....	16,048.67	948.65	5.91	152,701.17	10,220.08	6.69
Lentils.....	8,657.23	629.97	7.28	51,869.49	5,074.87	9.78
Vetch	3,917.89	368.89	9.42	50,799.11	5,737.35	11.29
Soya beans.....	10.78	4.58	42.53	-	-	-
Fenugreek.....	1,281.62	193.39	15.09	7,875.51	1,302.20	16.53
Gibto	*	*	*	*	*	*
Oilseeds.....	6,383.32	417.47	6.54	28,942.23	2,083.82	7.20
Neug.	847.67	93.05	10.98	2,322.42	267.70	11.53
Linseed.....	3,594.06	327.76	9.12	12,320.81	1,199.22	9.73
Groundnuts.....	*	*	*	*	*	*
Safflower.....	620.05	91.76	14.80	4,839.70	700.06	14.47
Sesame.....	1,248.74	182.12	14.58	9,058.27	1,299.31	14.34
Rapeseed.....	65.43	13.50	20.64	389.26	103.64	26.62
Vegetables.....	750.53	47.02	6.27	30,854.14	2,971.86	9.63
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	43.77	4.93	11.26	4,325.63	492.95	11.40
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	146.25	16.50	11.28	14,022.84	1,638.03	11.68
Red peppers.....	526.27	40.66	7.73	7,657.23	927.39	12.11
Swiss chard.....	1.45	.37	25.22	173.97	43.87	25.22
Root Crops.....	1,415.94	143.48	10.13	189,525.97	19,366.70	10.22
Beetroot.....	6.42	2.15	33.55	834.16	279.88	33.55
Carrot.....	*	*	*	*	*	*
Onion	944.62	129.03	13.66	127,277.66	17,426.15	13.69
Potatoes.....	107.09	26.48	24.73	11,154.85	2,782.29	24.94
Garlic.....	297.06	22.99	7.74	43,891.12	3,445.36	7.85
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	46.79	15.46	33.04	4,678.75	1,545.99	33.04

Table 4.6- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Amhara Region
East Gojam Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	433,247.21	11,031.44	2.55	5,691,063.79	158,838.78	2.79
Cereals	338,860.27	9,035.46	2.67	4,582,189.37	146,547.01	3.20
Teff	169,824.93	6,151.89	3.62	1,969,216.35	85,594.97	4.35
Barley	41,914.13	2,995.39	7.15	483,543.44	39,427.62	8.15
Wheat	58,851.09	2,957.99	5.03	923,962.39	60,853.53	6.59
Maize	46,822.50	2,126.82	4.54	953,600.35	49,980.02	5.24
Sorghum	19,832.47	2,573.26	12.97	236,872.29	31,043.65	13.11
Finger millet	1,547.38	419.90	27.14	13,980.47	4,477.12	32.02
Oats/'Aja'	67.77	21.76	32.10	1,014.08	316.58	31.22
Rice	-	-	-	-	-	-
Pulses	70,374.08	2,292.68	3.26	739,030.46	27,690.17	3.75
Horse beans	21,122.90	1,031.20	4.88	248,839.93	13,753.48	5.53
Field peas	11,114.92	707.84	6.37	87,355.12	6,739.89	7.72
Haricot beans	4,618.88	770.34	16.68	40,718.82	8,039.80	19.74
Chick-peas	16,028.93	1,114.51	6.95	168,663.08	12,404.68	7.35
Lentils	1,884.36	305.99	16.24	10,032.76	1,706.34	17.01
Vetch	13,962.52	983.62	7.04	169,591.66	13,833.86	8.16
Soya beans	*	*	*	*	*	*
Fenugreek	447.93	82.22	18.36	2,196.19	429.72	19.57
Gibto	1,146.39	224.32	19.57	11,358.87	2,326.80	20.48
Oilseeds	20,490.28	1,909.16	9.32	98,174.41	10,757.26	10.96
Neug	16,311.22	1,697.13	10.40	70,712.64	8,398.50	11.88
Linseed	2,745.05	334.66	12.19	13,675.52	2,309.00	16.88
Groundnuts	-	-	-	-	-	-
Sufflower	46.98	21.80	46.40	*	*	*
Sesame	*	*	*	*	*	*
Rapeseed	1,346.64	222.32	16.51	13,459.67	2,685.86	19.95
Vegetables	1,415.96	204.31	14.43	39,046.22	5,540.34	14.19
Lettuce	-	-	-	-	-	-
Head Cabbage	3.00	1.34	44.58	359.45	160.24	44.58
Ethiopian Cabbage	29.02	10.70	36.88	2,764.03	1,062.06	38.42
Tomatoes	*	*	*	*	*	*
Green peppers	198.19	45.68	23.05	18,536.59	4,553.05	24.56
Red peppers	1,182.76	200.77	16.98	16,949.57	3,153.22	18.60
Swiss chard	*	*	*	*	*	*
Root Crops	2,106.62	221.44	10.51	232,623.33	23,986.16	10.31
Beetroot	10.07	4.33	43.01	1,308.46	562.72	43.01
Carrot	*	*	*	*	*	*
Onion	248.93	42.63	17.12	33,361.90	5,751.28	17.24
Potatoes	1,698.71	203.25	11.96	178,364.73	21,340.98	11.96
Garlic	131.10	16.30	12.43	19,128.58	2,426.45	12.68
Taro/'Godere'	*	*	*	-	-	-
Sweet potatoes	*	*	*	*	*	*

Table 4.7- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Amhara Region
West Gojam Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	414,963.80	9,800.95	2.36	5,998,853.80	174,796.88	2.91
Cereals	316,613.68	7,568.95	2.39	4,988,458.21	165,577.55	3.32
Teff.	102,547.05	3,656.45	3.57	891,801.22	39,175.89	4.39
Barley.....	26,190.86	1,701.73	6.50	299,753.92	22,297.89	7.44
Wheat	15,753.60	1,748.96	11.10	247,049.26	35,390.09	14.33
Maize	110,650.02	3,347.94	3.03	2,879,413.73	122,068.68	4.24
Sorghum.....	3,140.62	1,043.03	33.21	34,961.10	11,579.02	33.12
Finger millet.....	58,140.74	3,290.26	5.66	633,820.14	40,176.58	6.34
Oats/'Aja'.....	190.78	54.03	28.32	1,658.85	502.39	30.29
Rice.	-	-	-	-	-	-
Pulses.	46,662.89	2,251.16	4.82	486,010.60	26,670.44	5.49
Horse beans.....	18,076.52	1,089.20	6.03	225,755.97	16,481.58	7.30
Field peas.....	6,507.16	692.47	10.64	50,377.20	6,365.40	12.64
Haricot beans.....	1,702.93	470.63	27.64	16,114.55	4,962.42	30.79
Chick-peas.....	7,540.53	854.28	11.33	57,055.83	7,629.46	13.37
Lentils.....	138.86	47.50	34.21	567.61	203.87	35.92
Vetch	10,106.37	1,213.72	12.01	113,504.83	14,589.06	12.85
Soya beans.....	*	*	*	*	*	*
Fenugreek.....	288.54	104.27	36.14	1,052.78	320.41	30.43
Gibto	2,292.95	362.63	15.82	21,469.14	3,458.55	16.11
Oilseeds.....	43,080.00	2,600.47	6.04	212,195.88	13,509.59	6.37
Neug.	36,044.74	2,512.92	6.97	123,603.01	9,446.45	7.64
Linseed.....	2,094.00	337.00	16.09	9,111.55	1,592.37	17.48
Groundnuts.....	*	*	*	-	-	-
Sufflower.....	54.24	20.28	37.38	311.51	122.73	39.40
Sesame.....	*	*	*	*	*	*
Rapeseed.....	4,703.15	393.26	8.36	78,462.98	8,455.80	10.78
Vegetables.....	6,376.84	544.02	8.53	65,156.90	7,806.39	11.98
Lettuce.....	*	*	*	-	-	-
Head Cabbage.....	11.88	5.28	44.41	1,426.15	633.38	44.41
Ethiopian Cabbage....	18.63	9.31	49.97	1,862.89	930.93	49.97
Tomatoes.....	7.00	3.41	48.69	1,049.63	511.06	48.69
Green peppers.....	21.29	5.26	24.71	1,846.39	483.57	26.19
Red peppers.....	6,317.28	544.25	8.62	58,971.84	7,777.93	13.19
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	2,230.41	219.85	9.86	247,032.20	24,172.08	9.78
Beetroot.....	*	*	*	*	*	*
Carrot.....	*	*	*	*	*	*
Onion	204.86	51.15	24.97	24,187.14	6,703.12	27.71
Potatoes.....	1,646.15	203.26	12.35	172,417.84	21,350.86	12.38
Garlic.....	325.59	46.65	14.33	44,514.60	6,954.94	15.62
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 4.8- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Amhara Region
Waghamera Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	67,453.20	2,781.91	4.12	492,087.17	29,999.49	6.10
Cereals	52,893.60	2,274.22	4.30	382,543.74	24,730.90	6.46
Teff.	18,886.71	1,402.15	7.42	107,939.24	10,091.82	9.35
Barley.....	10,996.75	875.64	7.96	82,618.23	9,136.91	11.06
Wheat.....	6,493.88	577.65	8.90	50,159.29	6,499.85	12.96
Maize.....	1,292.82	134.95	10.44	8,542.38	1,639.76	19.20
Sorghum.....	14,923.54	1,453.27	9.74	131,367.87	18,242.82	13.89
Finger millet.....	299.49	74.47	24.87	1,914.77	488.52	25.51
Oats/'Aja'.....	*	*	*	*	*	*
Rice.	-	-	-	-	-	-
Pulses.	13,089.33	972.27	7.43	102,323.44	9,152.65	8.94
Horse beans.....	7,129.48	674.92	9.47	68,982.12	6,756.68	9.79
Field peas.....	1,712.00	246.57	14.40	12,384.39	2,601.86	21.01
Haricot beans.....	1,194.47	205.86	17.23	5,128.05	1,255.59	24.48
Chick-peas.....	1,030.37	238.74	23.17	6,173.03	1,780.75	28.85
Lentils.....	2,012.29	241.34	11.99	9,647.28	1,808.77	18.75
Vetch	*	*	*	-	-	-
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	3.64	1.42	39.14	8.57	3.44	40.10
Gibto	*	*	*	-	-	-
Oilseeds.....	1,444.45	224.73	15.56	4,427.81	781.15	17.64
Neug.	156.04	43.33	27.77	290.09	93.67	32.29
Linseed.....	676.29	100.58	14.87	1,662.40	288.64	17.36
Groundnuts.....	*	*	*	-	-	-
Safflower.....	283.87	60.08	21.16	1,273.77	290.52	22.81
Sesame.....	*	*	*	*	*	*
Rapeseed.....	*	*	*	-	-	-
Vegetables.....	8.61	3.65	42.37	*	*	*
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	*	*	*	-	-	-
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	*	*	*	*	*	*
Red peppers.....	*	*	*	*	*	*
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	17.21	7.30	42.41	2,219.35	1,007.99	45.42
Beetroot.....	*	*	*	-	-	-
Carrot.....	-	-	-	-	-	-
Onion.....	*	*	*	*	*	*
Potatoes.....	3.32	1.65	49.78	348.44	173.47	49.78
Garlic.....	8.06	3.40	42.23	1,208.84	510.46	42.23
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	-	-	-	-	-	-

Table 4.9- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Amhara Region
Awi Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	187,853.34	8,535.33	4.54	2,623,667.04	134,926.78	5.14
Cereals	148,459.17	6,718.44	4.53	2,079,131.80	120,030.99	5.77
Teff.	50,020.21	2,657.51	5.31	398,161.10	24,282.79	6.10
Barley.....	13,967.23	1,244.24	8.91	158,054.30	14,113.19	8.93
Wheat.....	4,392.10	662.32	15.08	52,607.88	9,861.58	18.75
Maize.....	33,749.38	1,782.30	5.28	958,321.98	76,550.38	7.99
Sorghum.....	7,511.40	2,815.59	37.48	99,974.82	39,408.51	39.42
Finger millet.....	38,576.92	3,166.25	8.21	409,626.95	45,331.10	11.07
Oats/'Aja'.....	128.68	50.40	39.17	1,320.15	519.96	39.39
Rice.....	113.25	52.01	45.92	1,064.62	474.11	44.53
Pulses.....	9,095.90	935.27	10.28	65,343.08	7,800.37	11.94
Horse beans.....	3,171.21	508.81	16.04	29,745.92	5,339.06	17.95
Field peas.....	2,897.77	482.78	16.66	16,694.95	2,833.22	16.97
Haricot beans.....	612.93	296.40	48.36	*	*	*
Chick-peas.....	489.82	229.72	46.90	2,390.09	964.53	40.36
Lentils.....	*	*	*	*	*	*
Vetch.....	*	*	*	*	*	*
Soya beans.....	*	*	*	*	*	*
Fenugreek.....	21.23	4.80	22.60	82.46	31.45	38.14
Gibto.....	1,682.04	297.68	17.70	8,736.61	1,487.13	17.02
Oilseeds.....	25,857.06	2,271.75	8.79	97,270.93	15,212.11	15.64
Neug.....	21,922.26	1,975.09	9.01	62,803.41	6,991.85	11.13
Linseed.....	671.28	155.15	23.11	1,550.09	388.34	25.05
Groundnuts.....	*	*	*	*	*	*
Safflower.....	*	*	*	*	*	*
Sesame.....	691.01	342.01	49.49	*	*	*
Rapeseed.....	897.89	152.61	17.00	13,722.31	3,532.79	25.74
Vegetables.....	994.96	198.36	19.94	14,393.59	2,875.12	19.98
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	9.05	3.02	33.36	905.15	301.99	33.36
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	7.32	2.95	40.34	731.92	295.28	40.34
Red peppers.....	971.72	197.84	20.36	11,846.14	2,707.30	22.85
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	3,446.25	346.25	10.05	367,527.64	36,599.55	9.96
Beetroot.....	*	*	*	*	*	*
Carrot.....	*	*	*	*	*	*
Onion.....	*	*	*	*	*	*
Potatoes.....	3,175.62	343.53	10.82	332,989.20	36,079.07	10.83
Garlic.....	48.42	11.35	23.43	7,127.72	1,703.04	23.89
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 4.10- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Amhara Region
Oromia Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	44,697.02	2,412.19	5.40	504,424.71	28,282.09	5.61
Cereals	41,333.64	2,266.46	5.48	476,189.68	26,950.53	5.66
Teff.	8,991.75	806.60	8.97	79,003.10	7,336.67	9.29
Barley.....	599.41	101.18	16.88	6,523.81	1,312.18	20.11
Wheat	77.15	36.03	46.70	670.02	307.29	45.86
Maize	7,087.82	854.99	12.05	77,732.41	8,947.49	11.51
Sorghum.....	24,413.12	1,732.38	7.10	310,588.19	21,435.76	6.90
Finger millet.....	90.01	22.76	25.28	799.43	195.23	24.42
Oats/'Aja'.....	*	*	*	*	*	*
Rice.	33.49	16.62	49.64	317.67	152.08	47.87
Pulses.	1,526.57	202.82	13.29	11,005.00	2,135.37	19.40
Horse beans.....	222.97	96.64	43.34	3,043.15	1,499.22	49.27
Field peas.....	143.95	40.18	27.91	1,601.36	564.41	35.25
Haricot beans.....	468.66	84.99	18.13	2,162.79	414.96	19.19
Chick-peas.....	612.55	124.33	20.30	3,685.72	725.65	19.69
Lentils.....	75.17	22.41	29.81	499.98	181.19	36.24
Vetch	*	*	*	*	*	*
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	*	*	*	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	1,767.85	316.29	17.89	12,998.81	3,399.82	26.15
Neug.	74.53	19.07	25.59	249.13	66.53	26.70
Linseed.....	38.74	11.00	28.40	99.90	27.15	27.18
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	126.60	28.66	22.63	763.13	151.17	19.81
Sesame.....	1,470.52	295.48	20.09	11,047.16	2,812.33	25.46
Rapeseed.....	*	*	*	*	*	*
Vegetables.....	46.03	9.57	20.80	1,315.07	228.56	17.38
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	6.34	1.70	26.83	634.01	170.09	26.83
Tomatoes.....	1.35	.57	42.32	-	-	-
Green peppers.....	3.53	1.23	34.78	353.02	122.79	34.78
Red peppers.....	34.80	9.52	27.34	328.05	82.95	25.29
Swiss chard.....	*	*	*	-	-	-
Root Crops.....	22.93	9.76	42.57	2,916.15	1,330.55	45.63
Beetroot.....	*	*	*	-	-	-
Carrot.....	*	*	*	-	-	-
Onion	*	*	*	*	*	*
Potatoes.....	*	*	*	*	*	*
Garlic.....	*	*	*	*	*	*
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 5- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	3,532,674.25	25,174.50	.71	54,338,047.27	509,013.64	.94
Cereals	2,911,616.17	21,130.16	.73	44,260,457.24	417,360.95	.94
Teff.	762,119.72	10,383.23	1.36	7,132,516.16	113,333.24	1.59
Barley.....	367,426.19	8,932.57	2.43	4,773,395.38	153,579.47	3.22
Wheat	545,923.45	9,636.19	1.77	8,595,217.36	185,337.83	2.16
Maize	729,461.83	9,663.10	1.32	16,603,874.24	275,549.19	1.66
Sorghum.....	437,397.55	7,764.79	1.78	6,355,852.91	134,652.85	2.12
Finger millet.....	49,335.52	1,504.64	3.05	546,501.28	24,839.82	4.55
Oats/'Aja'.....	19,366.68	785.02	4.05	243,587.90	12,099.19	4.97
Rice.	585.23	97.06	16.58	9,512.02	1,834.28	19.28
Pulses.	363,960.71	5,161.47	1.42	3,780,677.15	62,496.57	1.65
Horse beans.....	137,377.84	2,533.47	1.84	1,674,197.88	37,776.99	2.26
Field peas.....	64,706.78	2,367.79	3.66	567,644.28	25,938.11	4.57
Haricot beans.....	63,451.13	1,896.45	2.99	558,896.85	22,373.35	4.00
Chick-peas.....	55,644.95	2,106.73	3.79	587,091.16	22,177.93	3.78
Lentils.....	14,003.14	792.93	5.66	87,532.12	6,730.52	7.69
Vetch	21,973.47	1,173.09	5.34	263,707.90	16,440.26	6.23
Soya beans.....	254.31	40.64	15.98	1,422.20	417.92	29.39
Fenugreek.....	6,549.10	516.78	7.89	40,184.75	3,698.29	9.20
Gibto	-	-	-	-	-	-
Oilseeds.....	188,391.65	4,178.11	2.22	908,390.50	23,787.95	2.62
Neug.	93,154.34	2,831.94	3.04	324,256.03	11,234.44	3.46
Linseed.....	68,819.37	2,569.39	3.73	391,211.26	17,122.03	4.38
Groundnuts.....	10,095.95	884.68	8.76	77,559.23	6,486.46	8.36
Safflower.....	916.05	128.22	14.00	6,143.14	1,120.91	18.25
Sesame.....	9,908.61	1,086.08	10.96	64,974.53	7,696.34	11.85
Rapeseed.....	5,497.34	498.43	9.07	44,246.31	5,133.88	11.60
Vegetables.....	29,731.42	1,372.50	4.62	1,226,601.46	64,037.26	5.22
Lettuce.....	101.52	31.80	31.33	9,281.35	3,152.58	33.97
Head Cabbage.....	377.35	106.64	28.26	44,121.39	12,787.76	28.98
Ethiopian Cabbage....	5,183.18	414.20	7.99	516,417.58	41,420.39	8.02
Tomatoes.....	960.93	226.39	23.56	143,727.59	33,957.90	23.63
Green peppers.....	2,201.75	105.77	4.80	213,440.58	10,532.51	4.93
Red peppers.....	20,867.07	1,279.78	6.13	294,901.84	29,345.19	9.95
Swiss chard.....	39.63	17.04	43.00	4,711.13	2,045.01	43.41
Root Crops.....	38,974.29	1,600.01	4.11	4,161,920.92	171,784.95	4.13
Beetroot.....	276.21	34.61	12.53	35,643.72	4,495.54	12.61
Carrot.....	257.52	40.93	15.89	31,261.69	4,991.77	15.97
Onion	6,280.17	476.01	7.58	846,027.81	64,272.67	7.60
Potatoes.....	14,955.94	1,397.43	9.34	1,568,878.24	146,729.48	9.35
Garlic.....	1,799.45	125.71	6.99	263,152.02	18,822.43	7.15
Taro/'Godere'.....	5,847.27	331.27	5.67	467,565.93	26,501.70	5.67
Sweet potatoes.....	9,557.72	428.70	4.49	949,391.51	42,855.08	4.51

Table 5.1- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region
West Welega Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	236,232.68	4,386.38	1.86	3,863,493.89	78,166.49	2.02
Cereals	195,354.63	3,494.71	1.79	3,105,583.53	65,579.48	2.11
Teff	31,521.12	1,801.85	5.72	216,228.54	15,206.89	7.03
Barley	3,474.67	251.94	7.25	27,828.82	2,316.76	8.33
Wheat	10,964.04	693.38	6.32	131,982.70	9,907.41	7.51
Maize	80,460.24	1,650.19	2.05	1,796,982.20	44,101.53	2.45
Sorghum	44,585.09	1,255.38	2.82	691,333.96	22,660.08	3.28
Finger millet	24,164.60	953.88	3.95	239,271.90	12,220.97	5.11
Oats/'Aja'	184.87	51.42	27.81	1,955.41	663.10	33.91
Rice	-	-	-	-	-	-
Pulses	19,878.86	840.46	4.23	161,924.64	8,980.43	5.55
Horse beans	7,199.49	357.59	4.97	62,398.72	4,042.83	6.48
Field peas	3,682.07	482.36	13.10	26,600.23	4,735.07	17.80
Haricot beans	7,264.28	413.24	5.69	60,851.51	4,105.12	6.75
Chick-peas	1,367.53	150.92	11.04	10,544.21	1,614.85	15.32
Lentils	48.19	13.26	27.52	249.10	106.69	42.83
Vetch	98.36	14.07	14.31	366.44	78.93	21.54
Soya beans	8.77	3.38	38.59	44.35	21.17	47.72
Fenugreek	210.17	31.22	14.85	870.08	222.68	25.59
Gibto	-	-	-	-	-	-
Oilseeds	12,790.01	838.93	6.56	50,692.20	3,759.06	7.42
Neug.	10,179.98	676.16	6.64	33,537.27	2,221.02	6.62
Linseed	230.87	35.73	15.48	753.31	106.22	14.10
Groundnuts	19.84	7.36	37.08	82.85	37.01	44.67
Sunflower	54.60	17.37	31.82	455.40	172.85	37.96
Sesame	1,051.93	379.20	36.05	6,874.86	2,651.84	38.57
Rapeseed	1,252.79	93.70	7.48	8,988.51	835.52	9.30
Vegetables	4,049.46	393.42	9.72	111,350.28	7,509.50	6.74
Lettuce	*	*	*	-	-	-
Head Cabbage	12.54	2.79	22.21	1,499.91	334.25	22.28
Ethiopian Cabbage	224.96	21.01	9.34	22,235.20	2,098.84	9.44
Tomatoes	*	*	*	*	*	*
Green peppers	275.53	24.28	8.81	26,906.91	2,429.25	9.03
Red peppers	3,526.36	399.54	11.33	59,393.76	7,377.42	12.42
Swiss chard	*	*	*	*	*	*
Root Crops	4,159.73	173.31	4.17	433,943.25	18,430.42	4.25
Beetroot	29.76	10.84	36.42	3,869.35	1,409.16	36.42
Carrot	14.69	6.99	47.58	1,786.53	853.23	47.76
Onion	100.30	17.25	17.20	13,070.94	2,325.65	17.79
Potatoes	2,155.84	115.60	5.36	226,336.95	12,138.00	5.36
Garlic	143.56	39.65	27.62	20,533.49	5,943.03	28.94
Taro/'Godere'	147.48	12.74	8.64	11,792.06	1,019.22	8.64
Sweet potatoes	1,568.08	84.67	5.40	156,553.92	8,465.62	5.41

Table 5.2- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region
East Welega Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	305,268.89	6,727.60	2.20	4,630,714.38	133,040.53	2.87
Cereals	230,212.60	4,797.17	2.08	4,023,675.33	119,627.05	2.97
Teff	86,924.36	2,807.75	3.23	823,284.46	28,752.27	3.49
Barley	15,055.63	1,250.25	8.30	171,397.62	17,509.89	10.22
Wheat	15,306.65	1,058.69	6.92	250,880.25	19,981.29	7.96
Maize	74,737.99	2,345.19	3.14	2,119,476.06	82,402.35	3.89
Sorghum	25,049.93	2,112.76	8.43	506,985.27	53,395.45	10.53
Finger millet	12,592.24	643.60	5.11	144,555.33	8,954.65	6.19
Oats/'Aja'	275.30	51.08	18.55	3,210.84	752.71	23.44
Rice	270.51	56.37	20.84	3,885.51	811.47	20.88
Pulses	18,392.26	834.76	4.54	194,626.01	11,228.08	5.77
Horse beans	10,924.09	477.02	4.37	130,161.55	6,653.29	5.11
Field peas	5,238.68	478.66	9.14	43,175.68	4,929.39	11.42
Haricot beans	1,668.49	343.69	20.60	17,778.36	6,348.15	35.71
Chick-peas	410.46	92.85	22.62	2,895.69	664.87	22.96
Lentils	21.59	7.06	32.71	72.05	20.63	28.63
Vetch	15.93	7.34	46.10	-	-	-
Soya beans	30.01	14.98	49.92	-	-	-
Fenugreek	83.01	9.40	11.32	293.66	37.96	12.92
Gibto	-	-	-	-	-	-
Oilseeds	53,172.99	2,096.40	3.94	214,417.34	9,721.28	4.53
Neug.	42,570.73	1,769.21	4.16	140,966.29	5,548.00	3.94
Linseed	1,425.59	200.96	14.10	4,445.50	667.05	15.01
Groundnuts	1,235.84	209.77	16.97	13,084.52	2,340.89	17.89
Sufflower	206.63	66.38	32.12	1,048.19	274.56	26.19
Sesame	6,620.72	987.66	14.92	44,533.99	6,999.45	15.72
Rapeseed	1,113.49	149.79	13.45	10,338.85	2,014.99	19.49
Vegetables	2,158.62	186.33	8.63	51,265.50	3,878.59	7.57
Lettuce	*	*	*	-	-	-
Head Cabbage	*	*	*	-	-	-
Ethiopian Cabbage	26.35	6.46	24.50	2,368.03	640.87	27.06
Tomatoes	*	*	*	*	*	*
Green peppers	239.36	26.63	11.12	22,917.74	2,659.17	11.60
Red peppers	1,880.65	184.78	9.83	24,685.78	2,886.12	11.69
Swiss chard	*	*	*	*	*	*
Root Crops	1,332.43	115.57	8.67	146,730.20	12,146.44	8.28
Beetroot	8.76	1.78	20.38	1,131.25	232.13	20.52
Carrot	1.96	.70	36.01	238.15	85.99	36.11
Onion	115.71	28.03	24.23	15,454.23	3,783.37	24.48
Potatoes	673.92	56.33	8.36	70,403.71	5,908.99	8.39
Garlic	152.86	14.69	9.61	22,415.35	2,205.22	9.84
Taro/'Godere'	40.34	7.94	19.69	3,199.37	635.43	19.86
Sweet potatoes	338.88	97.82	28.86	33,888.14	9,781.71	28.86

Table 5.3- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region
Illubabor Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	175,736.38	3,093.16	1.76	2,492,824.24	59,550.05	2.39
Cereals	154,911.53	2,694.92	1.74	2,248,552.23	54,566.01	2.43
Teff.	49,032.47	1,604.68	3.27	433,351.04	17,596.71	4.06
Barley.....	5,184.93	400.89	7.73	38,017.49	3,292.52	8.66
Wheat	3,697.65	285.79	7.73	29,652.29	2,501.48	8.44
Maize	70,876.92	1,609.90	2.27	1,405,705.75	46,287.50	3.29
Sorghum.....	21,334.68	892.84	4.18	284,503.35	16,366.41	5.75
Finger millet.....	4,546.06	343.81	7.56	54,711.08	5,071.61	9.27
Oats/'Aja'.....	117.29	25.12	21.42	671.64	152.64	22.73
Rice.	121.52	45.39	37.35	1,939.59	746.24	38.47
Pulses.	14,683.32	727.17	4.95	106,051.11	6,723.25	6.34
Horse beans.....	5,211.57	309.25	5.93	38,641.64	2,795.59	7.23
Field peas.....	4,689.05	386.31	8.24	30,236.19	3,103.82	10.27
Haricot beans.....	3,399.28	268.11	7.89	28,484.99	3,074.59	10.79
Chick-peas.....	1,150.57	185.78	16.15	7,822.61	1,320.80	16.88
Lentils.....	*	*	*	-	-	-
Vetch	79.52	16.13	20.29	353.32	80.69	22.84
Soya beans.....	*	*	*	*	*	*
Fenugreek.....	144.69	19.86	13.73	504.86	82.97	16.43
Gibto	-	-	-	-	-	-
Oilseeds.....	3,060.73	237.47	7.76	11,704.73	1,195.39	10.21
Neug.	2,048.47	196.86	9.61	6,929.13	850.17	12.27
Linseed.....	407.25	47.02	11.55	1,333.19	193.31	14.50
Groundnuts.....	14.65	5.60	38.21	162.32	72.10	44.42
Sufflower.....	13.06	5.55	42.52	35.85	16.47	45.94
Sesame.....	337.56	100.51	29.78	2,038.83	646.38	31.70
Rapeseed.....	239.75	31.82	13.27	1,205.41	310.62	25.77
Vegetables.....	2,529.32	248.50	9.82	73,327.65	5,368.59	7.32
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	15.78	5.14	32.59	1,893.15	617.04	32.59
Ethiopian Cabbage....	199.88	14.84	7.42	19,920.25	1,486.42	7.46
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	157.33	18.21	11.57	15,608.03	1,821.34	11.67
Red peppers.....	2,148.72	247.84	11.53	34,800.24	4,702.56	13.51
Swiss chard.....	.86	.33	38.17	102.94	39.29	38.17
Root Crops.....	551.47	35.68	6.47	53,188.52	3,446.10	6.48
Beetroot.....	16.76	1.96	11.71	2,179.29	255.24	11.71
Carrot.....	1.11	.26	23.29	135.26	31.50	23.29
Onion	26.98	3.65	13.53	3,622.22	493.00	13.61
Potatoes.....	67.63	14.76	21.83	7,101.01	1,550.05	21.83
Garlic.....	34.53	2.84	8.22	4,985.34	424.10	8.51
Taro/'Godere'.....	259.35	19.98	7.71	20,731.51	1,598.72	7.71
Sweet potatoes.....	145.11	24.39	16.81	14,433.90	2,438.65	16.90

Table 5.4- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region
Jimma Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	316,801.36	8,673.35	2.74	5,470,482.92	183,621.91	3.36
Cereals	271,039.05	7,285.86	2.69	4,384,005.73	148,710.36	3.39
Teff.	83,453.86	3,392.82	4.07	781,245.27	36,170.34	4.63
Barley.....	16,803.73	1,831.38	10.90	197,799.23	29,619.75	14.97
Wheat.....	27,798.29	2,494.74	8.97	353,381.16	35,867.82	10.15
Maize.....	102,350.46	4,409.20	4.31	2,479,004.51	123,595.58	4.99
Sorghum.....	34,547.23	1,735.12	5.02	485,430.74	37,291.56	7.68
Finger millet.....	4,508.42	821.62	18.22	68,388.72	17,474.33	25.55
Oats/'Aja'.....	1,411.56	267.36	18.94	15,082.39	3,230.70	21.42
Rice.....	165.51	63.75	38.52	3,673.71	1,466.01	39.91
Pulses.....	24,392.61	1,768.83	7.25	269,146.00	24,193.40	8.99
Horse beans.....	13,422.16	1,138.94	8.49	163,917.80	17,391.04	10.61
Field peas.....	7,927.54	689.49	8.70	76,013.39	7,500.69	9.87
Haricot beans.....	1,214.58	379.69	31.26	*	*	*
Chick-peas.....	1,608.58	666.69	41.45	13,004.44	5,921.90	45.54
Lentils.....	182.78	33.23	18.18	703.65	142.16	20.20
Vetch.....	*	*	*	*	*	*
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	14.34	5.81	40.54	37.99	15.08	39.68
Gibto.....	-	-	-	-	-	-
Oilseeds.....	10,739.59	1,194.82	11.13	38,546.88	4,817.29	12.50
Neug.....	8,411.79	1,164.58	13.84	29,502.34	4,705.72	15.95
Linseed.....	1,908.54	150.57	7.89	7,014.06	708.75	10.10
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	*	*	*	-	-	-
Sesame.....	257.60	117.96	45.79	1,273.83	610.89	47.96
Rapeseed.....	58.77	13.98	23.79	216.59	59.18	27.32
Vegetables.....	3,889.39	738.51	18.99	196,846.13	21,931.95	11.14
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage.....	1,295.13	100.33	7.75	129,512.90	10,033.21	7.75
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	216.94	37.47	17.27	21,685.32	3,747.06	17.28
Red peppers.....	2,232.46	720.51	32.27	28,233.25	13,350.01	47.28
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	6,740.72	501.41	7.44	581,938.18	47,353.74	8.14
Beetroot.....	7.48	1.98	26.42	972.30	256.86	26.42
Carrot.....	11.25	4.81	42.78	1,373.09	587.39	42.78
Onion.....	85.79	32.55	37.94	11,581.00	4,394.24	37.94
Potatoes.....	771.51	232.79	30.17	81,008.70	24,443.06	30.17
Garlic.....	147.39	39.61	26.87	21,876.11	5,940.62	27.16
Taro/'Godere'.....	5,329.71	329.97	6.19	426,376.91	26,397.99	6.19
Sweet potatoes.....	*	*	*	*	*	*

Table 5.5- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region
West Shewa Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	589,140.94	11,735.42	1.99	8,779,490.12	215,454.58	2.45
Cereals	472,082.32	9,423.20	2.00	7,283,255.62	194,429.00	2.67
Teff	201,401.24	6,665.89	3.31	2,258,105.64	81,796.70	3.62
Barley	67,982.92	4,470.06	6.58	876,022.01	63,618.79	7.26
Wheat	82,896.09	3,620.94	4.37	1,296,863.12	66,479.30	5.13
Maize	71,657.72	3,493.18	4.87	2,023,049.37	125,135.12	6.19
Sorghum.....	46,011.47	2,996.73	6.51	800,918.53	62,764.30	7.84
Finger millet.....	843.70	289.39	34.30	14,241.39	6,856.91	48.15
Oats/'Aja'.....	1,289.18	213.18	16.54	14,055.56	2,388.43	16.99
Rice	-	-	-	-	-	-
Pulses	75,592.28	2,451.88	3.24	914,253.91	30,517.97	3.34
Horse beans.....	25,334.29	1,053.44	4.16	366,073.75	19,303.79	5.27
Field peas.....	8,045.44	633.49	7.87	87,980.55	6,745.10	7.67
Haricot beans.....	488.10	232.03	47.54	2,093.30	549.63	26.26
Chick-peas.....	27,062.01	1,554.23	5.74	289,657.15	15,437.47	5.33
Lentils.....	2,152.37	235.64	10.95	14,129.17	1,802.87	12.76
Vetch	11,096.45	885.65	7.98	146,042.76	13,760.26	9.42
Soya beans.....	17.99	8.00	44.45	35.98	16.00	44.45
Fenugreek.....	1,395.62	282.13	20.22	8,241.25	1,827.58	22.18
Gibto	-	-	-	-	-	-
Oilseeds.....	34,969.70	2,046.82	5.85	160,302.29	11,074.64	6.91
Neug.	21,283.55	1,599.13	7.51	78,232.37	7,385.22	9.44
Linseed.....	11,894.15	1,041.81	8.76	65,758.36	6,447.32	9.80
Groundnuts.....	*	*	*	-	-	-
Sufflower.....	125.32	44.10	35.19	1,143.02	399.33	34.94
Sesame.....	*	*	*	*	*	*
Rapeseed.....	1,658.49	416.33	25.10	15,167.62	4,271.03	28.16
Vegetables.....	4,217.33	461.43	10.94	149,036.54	17,570.24	11.79
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	30.94	10.55	34.09	3,264.87	1,212.15	37.13
Ethiopian Cabbage....	343.48	28.54	8.31	33,592.35	2,856.31	8.50
Tomatoes.....	205.98	91.92	44.62	30,897.66	13,787.33	44.62
Green peppers.....	352.92	58.89	16.69	34,682.88	5,890.16	16.98
Red peppers.....	3,267.37	448.34	13.72	44,866.88	8,142.94	18.15
Swiss chard.....	5.90	2.32	39.28	708.55	278.32	39.28
Root Crops.....	2,279.31	294.99	12.94	272,641.76	32,813.36	12.04
Beetroot.....	30.37	8.52	28.07	3,943.25	1,108.16	28.10
Carrot.....	28.78	10.00	34.73	3,510.93	1,219.45	34.73
Onion.....	575.21	97.53	16.96	77,536.57	13,166.70	16.98
Potatoes.....	1,159.65	259.13	22.35	121,251.47	27,204.78	22.44
Garlic.....	387.02	30.48	7.88	56,799.96	4,559.35	8.03
Taro/'Godere'.....	11.42	3.36	29.38	913.68	268.42	29.38
Sweet potatoes.....	86.86	25.73	29.62	8,685.91	2,572.95	29.62

Table 5.6- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region
North Shewa Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	297,277.58	6,746.04	2.27	2,859,049.09	76,507.50	2.68
Cereals	236,188.61	5,545.23	2.35	2,302,390.86	66,601.99	2.89
Teff.	86,394.35	3,429.85	3.97	704,319.64	31,074.11	4.41
Barley.....	58,184.39	3,015.30	5.18	540,930.81	32,766.49	6.06
Wheat	39,712.70	2,261.01	5.69	417,864.32	33,321.99	7.97
Maize	5,328.45	276.66	5.19	79,886.69	5,263.27	6.59
Sorghum.....	45,480.27	3,478.62	7.65	551,401.49	45,131.11	8.18
Finger millet.....	83.06	35.30	42.50	773.63	331.23	42.81
Oats/'Aja'.....	1,005.40	115.23	11.46	7,214.29	875.41	12.13
Rice.	-	-	-	-	-	-
Pulses.	52,171.59	2,161.93	4.14	472,328.42	21,606.51	4.57
Horse beans.....	27,797.48	1,260.59	4.53	261,943.92	12,695.57	4.85
Field peas.....	5,891.26	430.81	7.31	37,506.29	3,134.32	8.36
Haricot beans.....	55.13	17.78	32.25	313.24	113.35	36.19
Chick-peas.....	6,414.51	732.50	11.42	65,431.42	8,257.26	12.62
Lentils.....	6,232.37	658.49	10.57	42,176.35	5,753.20	13.64
Vetch	5,433.47	586.17	10.79	63,057.24	7,496.84	11.89
Soya beans.....	*	*	*	*	*	*
Fenugreek.....	319.49	65.95	20.64	1,646.30	362.77	22.04
Gibto	-	-	-	-	-	-
Oilseeds.....	8,303.30	533.84	6.43	29,797.20	2,330.26	7.82
Neug.	3,955.35	393.39	9.95	10,621.36	1,522.56	14.33
Linseed.....	3,985.09	312.43	7.84	16,488.75	1,489.46	9.03
Groundnuts.....	*	*	*	-	-	-
Sufflower.....	294.48	89.66	30.45	2,326.66	968.52	41.63
Sesame	*	*	*	*	*	*
Rapeseed.....	31.98	14.71	45.99	*	*	*
Vegetables.....	338.91	45.66	13.47	16,269.10	2,338.14	14.37
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	30.30	4.10	13.53	2,997.97	409.94	13.67
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	66.45	9.99	15.03	6,645.07	998.70	15.03
Red peppers.....	214.41	43.27	20.18	3,077.32	713.21	23.18
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	275.17	29.86	10.85	38,263.52	3,906.24	10.21
Beetroot.....	2.94	1.18	40.19	376.37	153.66	40.83
Carrot.....	*	*	*	*	*	*
Onion	82.26	13.82	16.80	11,024.96	1,866.94	16.93
Potatoes.....	14.16	6.77	47.76	1,487.28	710.34	47.76
Garlic.....	156.64	15.35	9.80	23,060.48	2,294.84	9.95
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 5.7: Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region
East Shewa Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	391,987.29	8,488.74	2.17	6,602,100.51	215,516.01	3.26
Cereals	327,618.02	7,490.11	2.29	5,192,441.64	154,756.53	2.98
Teff.	111,197.25	3,755.99	3.38	965,709.60	37,223.96	3.85
Barley.....	12,506.33	1,575.76	12.60	182,159.21	35,465.44	19.47
Wheat	57,036.92	2,509.57	4.40	899,347.16	47,383.55	5.27
Maize	134,050.33	5,001.28	3.73	2,988,738.44	141,219.92	4.73
Sorghum.....	11,592.19	1,361.31	11.74	144,240.24	17,020.30	11.80
Finger millet.....	1,039.07	181.99	17.51	9,705.03	2,438.66	25.13
Oats/'Aja'.....	195.93	37.79	19.29	2,541.97	498.47	19.61
Rice.	-	-	-	-	-	-
Pulses.	53,951.72	1,733.99	3.21	540,885.02	18,875.31	3.49
Horse beans.....	6,982.12	387.83	5.55	76,798.10	5,295.35	6.90
Field peas.....	5,482.23	539.64	9.84	46,675.45	5,879.76	12.60
Haricot beans.....	21,347.29	1,375.26	6.44	198,696.99	14,037.98	7.07
Chick-peas.....	13,669.60	916.94	6.71	163,588.46	10,791.29	6.60
Lentils.....	2,887.00	340.44	11.79	18,936.67	2,875.31	15.18
Vetch	2,857.17	321.23	11.24	31,880.60	3,586.25	11.25
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	724.91	97.59	13.46	4,308.76	774.18	17.97
Gibto	-	-	-	-	-	-
Oilseeds.....	1,004.23	146.21	14.56	5,859.07	1,324.63	22.61
Neug.	7.41	2.90	39.14	8.87	3.81	42.96
Linseed.....	105.37	22.38	21.24	421.10	170.12	40.40
Groundnuts.....	*	*	*	-	-	-
Sufflower.....	52.84	16.99	32.15	316.24	114.95	36.35
Sesame.....	688.57	140.01	20.33	4,231.86	1,278.18	30.20
Rapeseed.....	149.49	37.70	25.22	880.99	335.08	38.03
Vegetables.....	3,225.20	662.30	20.54	196,963.95	29,511.90	14.98
Lettuce.....	*	*	*	-	-	-
Head Cabbage.....	62.01	29.71	47.92	7,440.61	3,565.47	47.92
Ethiopian Cabbage....	622.59	62.03	9.96	62,165.62	6,206.34	9.98
Tomatoes.....	325.05	110.39	33.96	48,753.67	16,558.10	33.96
Green peppers.....	335.12	53.25	15.89	32,849.34	5,321.54	16.20
Red peppers.....	1,874.75	644.83	34.40	45,649.23	22,334.19	48.93
Swiss chard.....	.99	.40	40.52	105.47	46.96	44.53
Root Crops.....	6,188.12	1,273.10	20.57	665,950.84	133,973.46	20.12
Beetroot.....	51.62	18.35	35.55	6,710.35	2,385.34	35.55
Carrot.....	63.23	25.63	40.53	7,714.36	3,126.56	40.53
Onion	434.47	105.95	24.39	58,346.73	14,302.43	24.51
Potatoes.....	5,547.56	1,269.95	22.89	582,493.60	133,344.58	22.89
Garlic.....	70.99	10.21	14.38	8,732.99	1,029.25	11.79
Taro/'Godere'.....	*	*	*	-	-	-
Sweet potatoes.....	19.53	6.91	35.38	1,952.82	690.84	35.38

Table 5.8- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region
Arsi Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	544,820.02	10,804.72	1.98	9,173,210.26	255,811.25	2.79
Cereals	450,477.84	9,739.48	2.16	7,650,932.16	202,444.38	2.65
Teff.	57,330.06	2,730.45	4.76	530,316.97	27,030.24	5.10
Barley.....	110,316.36	5,656.26	5.13	1,755,630.34	118,120.92	6.73
Wheat	188,077.15	6,417.48	3.41	3,319,378.34	135,231.18	4.07
Maize	66,682.03	3,356.94	5.03	1,495,172.25	79,122.59	5.29
Sorghum.....	24,330.13	1,508.40	6.20	502,063.35	34,189.94	6.81
Finger millet.....	263.98	80.14	30.36	2,391.59	734.36	30.71
Oats/'Aja'.....	3,478.13	328.47	9.44	45,979.31	4,479.31	9.74
Rice.	-	-	-	-	-	-
Pulses.	49,403.94	1,603.69	3.25	632,639.40	25,012.52	3.95
Horse beans.....	27,373.74	1,056.46	3.86	413,839.09	19,459.87	4.70
Field peas.....	11,369.88	851.09	7.49	115,484.37	9,034.67	7.82
Haricot beans.....	7,092.76	634.78	8.95	73,289.90	8,197.13	11.18
Chick-peas.....	949.55	146.68	15.45	8,962.87	1,611.25	17.98
Lentils.....	555.28	58.28	10.50	2,855.65	408.54	14.31
Vetch	1,492.55	304.95	20.43	13,082.07	2,795.59	21.37
Soya beans.....	39.60	17.56	44.35	831.69	368.82	44.35
Fenugreek.....	530.57	81.19	15.30	4,293.77	797.01	18.56
Gibto	-	-	-	-	-	-
Oilseeds.....	37,283.41	1,969.55	5.28	223,736.69	13,078.25	5.85
Neug.	4,375.73	563.39	12.88	23,412.30	3,266.49	13.95
Linseed.....	31,920.54	1,901.96	5.96	192,307.21	12,460.18	6.48
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	89.21	24.24	27.17	609.52	183.06	30.03
Sesame.....	40.54	18.30	45.15	299.79	146.27	48.79
Rapeseed.....	815.19	198.44	24.34	6,625.17	1,757.58	26.53
Vegetables.....	3,191.13	447.00	14.01	119,084.84	34,961.48	29.36
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	36.53	18.17	49.74	*	*	*
Ethiopian Cabbage....	*	*	*	*	*	*
Tomatoes.....	124.47	62.07	49.87	18,669.98	9,310.62	49.87
Green peppers.....	140.25	24.92	17.77	12,726.54	2,360.97	18.55
Red peppers.....	2,238.48	290.24	12.97	18,606.96	3,125.85	16.80
Swiss chard.....	*	*	*	-	-	-
Root Crops.....	4,463.69	534.87	11.98	546,817.17	64,205.92	11.74
Beetroot.....	52.56	13.95	26.55	6,608.35	1,806.14	27.33
Carrot.....	60.07	19.57	32.57	7,328.45	2,387.01	32.57
Onion	2,018.08	337.19	16.71	271,804.23	45,536.82	16.75
Potatoes.....	1,617.45	384.65	23.78	169,816.62	40,388.77	23.78
Garlic.....	469.79	83.62	17.80	69,620.37	12,552.55	18.03
Taro/'Godere'.....	1.34	.65	48.39	-	-	-
Sweet potatoes.....	244.41	38.38	15.70	21,639.16	3,693.83	17.07

Table 5.9- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region
West Harerge Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	173,794.38	4,667.61	2.69	2,913,444.38	92,083.14	3.16
Cereals	153,960.87	4,352.38	2.83	2,277,360.59	72,425.19	3.18
Teff.	9,607.10	1,149.04	11.96	111,294.24	14,155.41	12.72
Barley.....	4,935.92	329.99	6.69	48,019.09	5,267.45	10.97
Wheat	4,574.81	421.71	9.22	52,483.06	6,051.72	11.53
Maize	41,567.27	1,883.10	4.53	697,853.82	39,999.31	5.73
Sorghum.....	91,615.16	3,809.02	4.16	1,351,394.02	59,872.07	4.43
Finger millet.....	1,075.19	138.43	12.87	10,971.54	1,595.78	14.54
Oats/'Aja'.....	580.10	60.17	10.37	5,331.60	563.15	10.56
Rice.	5.32	2.58	48.45	*	*	*
Pulses.	12,440.38	753.40	6.06	146,426.18	10,818.91	7.39
Horse beans.....	2,644.14	424.63	16.06	33,387.46	5,415.80	16.22
Field peas.....	425.43	97.84	23.00	3,088.50	723.89	23.44
Haricot beans.....	7,396.95	484.34	6.55	89,205.31	7,817.06	8.76
Chick-peas.....	1,027.99	195.78	19.04	15,897.54	4,828.74	30.37
Lentils.....	589.20	81.83	13.89	3,065.08	436.43	14.24
Vetch	32.18	15.88	49.35	*	*	*
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	323.92	54.16	16.72	1,521.60	318.75	20.95
Gibto	-	-	-	-	-	-
Oilseeds.....	2,123.06	230.76	10.87	13,592.88	1,828.06	13.45
Neug.	14.47	5.71	39.48	11.89	4.75	39.91
Linseed.....	638.95	98.59	15.43	2,555.37	560.55	21.94
Groundnuts.....	763.96	124.41	16.29	6,687.95	1,342.54	20.07
Sufflower.....	25.98	11.35	43.71	199.72	81.50	40.81
Sesame.....	655.04	113.46	17.32	4,087.21	718.09	17.57
Rapeseed.....	24.66	9.45	38.30	50.74	23.37	46.06
Vegetables.....	1,620.69	299.82	18.50	59,055.51	24,660.83	41.76
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	*	*	*	-	-	-
Ethiopian Cabbage....	4.89	2.21	45.15	489.00	220.79	45.15
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	88.91	12.31	13.84	8,456.73	1,214.61	14.36
Red peppers.....	1,321.20	254.94	19.30	20,259.25	4,393.46	21.69
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	3,649.38	317.09	8.69	417,009.22	40,216.65	9.64
Beetroot.....	*	*	*	*	*	*
Carrot.....	*	*	*	-	-	-
Onion	1,434.15	267.39	18.64	193,609.96	36,098.23	18.64
Potatoes.....	112.43	28.12	25.01	11,784.90	2,952.42	25.05
Garlic.....	27.93	8.67	31.05	4,001.41	1,296.39	32.40
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	2,065.58	159.99	7.75	206,557.65	15,998.88	7.75

Table 5.10- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region
East Harerge Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	153,599.15	4,145.91	2.70	2,753,102.89	79,939.52	2.90
Cereals	130,805.84	3,811.29	2.91	1,883,035.45	61,057.17	3.24
Teff.	2,365.96	228.87	9.67	20,348.36	2,174.04	10.68
Barley.....	2,709.20	266.54	9.84	35,150.84	4,333.72	12.33
Wheat	10,646.82	804.08	7.55	156,033.09	13,674.38	8.76
Maize	36,039.31	1,694.40	4.70	709,498.58	41,559.38	5.86
Sorghum.....	78,391.56	3,208.67	4.09	954,362.97	45,309.00	4.75
Finger millet.....	16.35	7.15	43.73	*	*	*
Oats/'Aja'.....	614.27	92.18	15.01	7,550.29	1,375.18	18.21
Rice.	22.37	10.60	47.39	-	-	-
Pulses.	7,243.16	557.89	7.70	88,053.25	8,068.77	9.16
Horse beans.....	2,568.08	410.38	15.98	36,307.74	5,986.60	16.49
Field peas.....	593.20	109.03	18.38	6,406.10	1,328.53	20.74
Haricot beans.....	3,409.33	319.47	9.37	40,508.22	4,687.66	11.57
Chick-peas.....	144.90	34.10	23.53	518.99	163.38	31.48
Lentils.....	197.19	32.55	16.51	1,118.98	163.63	14.62
Vetch	*	*	*	*	*	*
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	306.56	34.85	11.37	2,772.09	567.49	20.47
Gibto	-	-	-	-	-	-
Oilseeds.....	8,564.78	857.92	10.02	60,743.74	5,999.76	9.88
Neug.	-	-	-	-	-	-
Linseed.....	408.01	79.66	19.52	2,668.23	646.18	24.22
Groundnuts.....	7,931.17	848.53	10.70	56,511.74	5,879.35	10.40
Sufflower.....	*	*	*	*	*	*
Sesame.....	219.00	55.51	25.35	1,545.01	494.70	32.02
Rapeseed.....	5.83	2.02	34.69	10.22	3.78	36.97
Vegetables.....	412.51	71.56	17.35	29,158.43	5,787.47	19.85
Lettuce.....	71.44	29.99	41.99	7,143.93	2,999.47	41.99
Head Cabbage.....	60.85	23.73	38.99	7,208.10	2,847.03	39.50
Ethiopian Cabbage....	10.07	4.97	49.41	*	*	*
Tomatoes.....	37.87	10.07	26.59	5,597.33	1,511.39	27.00
Green peppers.....	78.39	11.31	14.43	7,174.19	1,100.05	15.33
Red peppers.....	153.84	47.86	31.11	1,072.20	306.89	28.62
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	6,572.86	344.20	5.24	692,112.01	36,477.12	5.27
Beetroot.....	40.28	13.20	32.76	5,217.03	1,715.25	32.88
Carrot.....	33.95	13.36	39.36	4,141.64	1,629.98	39.36
Onion	525.42	75.02	14.28	70,931.26	10,127.14	14.28
Potatoes.....	2,024.17	203.55	10.06	212,537.95	21,372.55	10.06
Garlic.....	140.26	62.75	44.74	20,986.65	9,412.49	44.85
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	3,808.79	234.13	6.15	378,297.48	23,414.11	6.19

Table 5.11- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia Region
Bale Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	251,877.74	5,572.99	2.21	3,520,809.29	96,372.17	2.74
Cereals	212,789.36	4,622.60	2.17	3,023,014.60	92,114.06	3.05
Teff	31,957.47	1,597.02	5.00	213,977.48	11,559.94	5.40
Barley	48,076.32	2,208.55	4.59	669,074.88	35,644.75	5.33
Wheat	92,284.31	3,626.88	3.93	1,546,668.01	75,358.90	4.87
Maize	19,069.40	777.54	4.08	375,380.98	21,177.81	5.64
Sorghum	11,003.86	622.99	5.66	76,688.66	5,962.31	7.77
Finger millet	187.46	51.98	27.73	1,399.74	493.17	35.23
Oats/'Aja'	10,210.55	598.92	5.87	139,824.85	10,290.90	7.36
Rice	-	-	-	-	-	-
Pulses	18,881.74	1,111.10	5.88	152,715.94	10,359.13	6.78
Horse beans	5,126.99	464.97	9.07	61,254.60	5,805.65	9.48
Field peas	6,615.04	495.71	7.49	47,073.69	4,353.00	9.25
Haricot beans	1,618.50	148.09	9.15	10,137.72	975.86	9.63
Chick-peas	1,177.45	219.93	18.68	6,607.56	1,482.47	22.44
Lentils	1,078.44	104.03	9.65	4,206.25	516.47	12.28
Vetch	841.07	225.84	26.85	8,215.08	1,988.14	24.20
Soya beans	45.24	19.40	42.88	-	-	-
Fenugreek	2,379.02	393.43	16.54	15,221.04	2,888.11	18.97
Gibto	-	-	-	-	-	-
Oilseeds	16,238.74	1,306.86	8.05	98,630.31	9,610.91	9.74
Neug.	306.38	90.58	29.56	1,034.21	321.25	31.06
Linseed	15,877.46	1,310.79	8.26	97,404.93	9,610.63	9.87
Groundnuts	*	*	*	*	*	*
Sufflower	*	*	*	-	-	-
Sesame	*	*	*	*	*	*
Rapeseed	45.97	11.83	25.73	174.20	56.97	32.70
Vegetables	2,284.40	305.68	13.38	51,785.97	4,445.11	8.58
Lettuce .....	.51	.22	43.59	51.41	22.41	43.59
Head Cabbage	21.55	9.40	43.62	2,586.38	1,128.11	43.62
Ethiopian Cabbage	292.77	32.10	10.96	29,277.17	3,210.13	10.96
Tomatoes	5.26	2.63	49.89	789.74	394.01	49.89
Green peppers	67.23	11.73	17.45	6,073.02	1,031.91	16.99
Red peppers	1,896.96	304.07	16.03	12,996.24	1,751.57	13.48
Swiss chard	*	*	*	*	*	*
Root Crops	1,683.49	181.18	10.76	194,662.48	20,680.21	10.62
Beetroot	*	*	*	*	*	*
Carrot	21.81	7.13	32.70	2,655.74	870.03	32.76
Onion	577.49	75.57	13.09	77,960.68	10,202.46	13.09
Potatoes	650.49	103.51	15.91	67,744.97	10,870.36	16.05
Garlic	49.56	10.14	20.47	7,301.87	1,519.83	20.81
Taro/'Godere'	*	*	*	*	*	*
Sweet potatoes	349.57	83.97	24.02	34,855.00	8,398.40	24.10

Table 5.12- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Oromia
Borena Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	96,137.84	6,511.28	6.77	1,279,325.30	98,509.12	7.70
Cereals	76,175.50	5,056.54	6.64	886,209.50	76,527.68	8.64
Teff.....	10,934.48	954.55	8.73	74,334.92	7,566.43	10.18
Barley.....	22,195.80	2,458.07	11.07	231,365.04	27,168.07	11.74
Wheat	12,928.02	2,294.58	17.75	140,683.86	24,389.47	17.34
Maize	26,641.71	2,745.40	10.30	433,125.59	64,095.91	14.80
Sorghum.....	3,455.98	206.38	5.97	6,530.35	616.45	9.44
Finger millet.....	*	*	*	-	-	-
Oats/'Aja'.....	*	*	*	*	*	*
Rice.....	-	-	-	-	-	-
Pulses.....	16,928.86	1,789.53	10.57	101,627.28	19,975.57	19.66
Horse beans.....	2,793.70	374.17	13.39	29,473.52	4,099.98	13.91
Field peas.....	4,746.96	1,628.00	34.30	47,403.85	19,168.12	40.44
Haricot beans.....	8,496.43	620.14	7.30	22,097.18	2,410.06	10.91
Chick-peas.....	661.80	160.02	24.18	2,160.22	954.10	44.17
Lentils.....	53.41	19.58	36.65	19.17	8.01	41.79
Vetch	-	-	-	-	-	-
Soya beans.....	59.76	17.17	28.74	-	-	-
Fenugreek.....	*	*	*	*	*	*
Gibto	-	-	-	-	-	-
Oilseeds.....	141.12	42.23	29.93	367.19	127.18	34.64
Neug.....	.47	.22	47.55	-	-	-
Linseed.....	17.55	6.35	36.17	61.25	26.00	42.45
Groundnuts.....	*	*	*	-	-	-
Sunflower.....	*	*	*	-	-	-
Sesame.....	-	-	-	-	-	-
Rapeseed.....	100.93	37.86	37.51	305.94	123.44	40.35
Vegetables.....	1,814.46	212.64	11.72	172,457.56	21,228.62	12.31
Lettuce.....	*	*	*	-	-	-
Head Cabbage.....	*	*	*	-	-	-
Ethiopian Cabbage....	1,486.13	209.78	14.12	148,612.99	20,978.18	14.12
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	183.33	26.70	14.56	17,714.82	2,696.15	15.22
Red peppers.....	111.87	28.71	25.66	1,260.73	423.36	33.58
Swiss chard.....	*	*	*	-	-	-
Root Crops.....	1,077.90	131.65	12.21	118,663.77	15,156.09	12.77
Beetroot.....	*	*	*	-	-	-
Carrot.....	*	*	*	*	*	*
Onion	304.33	83.46	27.43	41,085.03	11,267.69	27.43
Potatoes.....	161.13	31.77	19.72	16,911.09	3,335.45	19.72
Garlic.....	18.92	7.79	41.17	2,838.01	1,168.43	41.17
Taro/'Godere'.....	49.86	13.71	27.50	3,989.07	1,096.86	27.50
Sweet potatoes.....	542.24	94.64	17.45	53,669.04	9,454.13	17.62

Table 6- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Somali Region

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	59,668.44	5,078.84	8.51	821,907.26	71,804.98	8.74
Cereals	57,040.60	4,787.95	8.39	714,362.05	57,406.98	8.04
Teff.	*	*	*	*	*	*
Barley.....	6,511.81	1,510.58	23.20	57,721.28	11,933.33	20.67
Wheat	8,353.80	1,204.35	14.42	109,973.45	15,923.45	14.48
Maize	20,846.55	1,593.36	7.64	263,447.26	26,054.41	9.89
Sorghum.....	20,824.36	1,947.34	9.35	279,054.26	28,376.61	10.17
Finger millet.....	*	*	*	-	-	-
Oats/'Aja'.....	432.63	121.57	28.10	3,954.60	1,015.46	25.68
Rice.	-	-	-	-	-	-
Pulses.	1,346.86	180.02	13.37	6,283.60	1,594.40	25.37
Horse beans.....	*	*	*	*	*	*
Field peas.....	86.04	41.83	48.62	*	*	*
Haricot beans.....	678.33	86.16	12.70	2,143.11	447.64	20.89
Chick-peas.....	406.93	130.86	32.16	*	*	*
Lentils.....	83.71	30.99	37.02	862.73	356.73	41.35
Vetch	*	*	*	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	56.86	22.29	39.21	189.84	70.17	36.97
Gibto	-	-	-	-	-	-
Oilseeds.....	493.38	185.13	37.52	2,372.42	719.95	30.35
Neug.	*	*	*	-	-	-
Linseed.....	445.06	185.27	41.63	1,409.81	539.27	38.25
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	-	-	-	-	-	-
Sesame.....	*	*	*	*	*	*
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	90.56	25.97	28.68	11,010.63	3,638.28	33.04
Lettuce.....	*	*	*	-	-	-
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	*	*	*	*	*	*
Tomatoes.....	60.42	23.78	39.35	9,063.38	3,566.65	39.35
Green peppers.....	13.12	6.40	48.76	*	*	*
Red peppers.....	*	*	*	-	-	-
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	697.04	160.46	23.02	87,878.57	22,263.05	25.33
Beetroot.....	*	*	*	*	*	*
Carrot.....	-	-	-	-	-	-
Onion	225.76	72.07	31.92	26,966.71	9,528.00	35.33
Potatoes.....	44.23	11.47	25.92	4,644.66	1,203.87	25.92
Garlic.....	268.97	99.46	36.98	40,324.83	14,918.52	37.00
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	153.55	67.00	43.63	15,354.78	6,699.87	43.63

Table 6.1- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Somali Region
Shinile Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	847.79	50.75	5.99	14,031.14	711.14	5.07
Cereals	813.04	50.34	6.19	10,274.61	513.47	5.00
Teff.	-	-	-	-	-	-
Barley.....	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	61.56	7.78	12.64	787.84	102.37	12.99
Sorghum.....	751.48	48.58	6.46	9,486.78	499.26	5.26
Finger millet.....	-	-	-	-	-	-
Oats/'Aja'.....	-	-	-	-	-	-
Rice.	-	-	-	-	-	-
Pulses.	-	-	-	-	-	-
Horse beans.....	-	-	-	-	-	-
Field peas.....	-	-	-	-	-	-
Haricot beans.....	-	-	-	-	-	-
Chick-peas.....	-	-	-	-	-	-
Lentils.....	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	*	*	*	-	-	-
Neug.	-	-	-	-	-	-
Linseed.....	-	-	-	-	-	-
Groundnuts.....	-	-	-	-	-	-
Sunflower.....	-	-	-	-	-	-
Sesame.....	*	*	*	-	-	-
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	13.27	2.52	18.99	1,762.91	327.12	18.56
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage.....	*	*	*	-	-	-
Tomatoes.....	9.15	1.70	18.55	1,371.96	254.46	18.55
Green peppers.....	3.91	1.30	33.33	390.95	130.29	33.33
Red peppers.....	-	-	-	-	-	-
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	19.82	3.04	15.31	1,993.62	305.85	15.34
Beetroot.....	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-
Onion	*	*	*	*	*	*
Potatoes.....	-	-	-	-	-	-
Garlic.....	*	*	*	-	-	-
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	18.97	3.00	15.83	1,896.87	300.22	15.83

Table 6.2- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Somali Region
Jijiga Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	55,219.68	5,064.64	9.17	784,581.31	71,592.61	9.12
Cereals	53,149.93	4,775.15	8.98	685,298.58	57,201.82	8.35
Teff.	*	*	*	*	*	*
Barley.....	6,507.67	1,510.57	23.21	57,721.28	11,933.33	20.67
Wheat	8,353.80	1,204.35	14.42	109,973.45	15,923.45	14.48
Maize	18,043.41	1,557.05	8.63	247,546.35	25,612.68	10.35
Sorghum.....	19,740.98	1,945.06	9.85	265,891.71	28,359.48	10.67
Finger millet.....	*	*	*	-	-	-
Oats/'Aja'.....	432.63	121.57	28.10	3,954.60	1,015.46	25.68
Rice.	-	-	-	-	-	-
Pulses.	889.92	167.90	18.87	5,358.51	1,563.43	29.18
Horse beans.....	*	*	*	*	*	*
Field peas.....	*	*	*	*	*	*
Haricot beans.....	233.53	56.94	24.38	1,218.03	320.30	26.30
Chick-peas.....	402.13	130.84	32.54	*	*	*
Lentils.....	79.79	30.91	38.74	862.73	356.73	41.35
Vetch	*	*	*	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	56.86	22.29	39.21	189.84	70.17	36.97
Gibto	-	-	-	-	-	-
Oilseeds.....	478.19	184.73	38.63	1,982.75	622.66	31.40
Neug.	*	*	*	-	-	-
Linseed.....	445.06	185.27	41.63	1,409.81	539.27	38.25
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	-	-	-	-	-	-
Sesame.....	-	-	-	-	-	-
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	54.01	22.84	42.29	*	*	*
Lettuce.....	*	*	*	-	-	-
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	*	*	*	*	*	*
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	*	*	*	*	*	*
Red peppers.....	*	*	*	-	-	-
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	647.63	159.65	24.65	85,527.85	22,259.81	26.03
Beetroot.....	*	*	*	*	*	*
Carrot.....	-	-	-	-	-	-
Onion	199.04	70.58	35.46	26,869.97	9,527.82	35.46
Potatoes.....	44.23	11.47	25.92	4,644.66	1,203.87	25.92
Garlic.....	268.83	99.46	37.00	40,324.83	14,918.52	37.00
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 6.3- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Somali Region
Liben Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	3,600.97	376.19	10.45	23,294.81	5,472.53	23.49
Cereals	3,077.63	346.26	11.25	18,788.86	4,821.74	25.66
Teff.	-	-	-	-	-	-
Barley.....	*	*	*	-	-	-
Wheat	-	-	-	-	-	-
Maize	2,741.58	338.11	12.33	15,113.08	4,776.25	31.60
Sorghum.....	331.90	80.65	24.30	3,675.78	849.98	23.12
Finger millet.....	-	-	-	-	-	-
Oats/'Aja'.....	-	-	-	-	-	-
Rice.	-	-	-	-	-	-
Pulses	456.95	64.93	14.21	925.08	312.72	33.80
Horse beans.....	*	*	*	-	-	-
Field peas.....	2.42	1.02	42.12	-	-	-
Haricot beans.....	444.79	64.66	14.54	925.08	312.72	33.80
Chick-peas.....	*	*	*	-	-	-
Lentils.....	*	*	*	-	-	-
Vetch	-	-	-	-	-	-
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	*	*	*	*	*	*
Neug.	*	*	*	-	-	-
Linseed.....	-	-	-	-	-	-
Groundnuts.....	*	*	*	-	-	-
Sufflower.....	-	-	-	-	-	-
Sesame.....	*	*	*	*	*	*
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	*	*	*	*	*	*
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	*	*	*	-	-	-
Ethiopian Cabbage....	*	*	*	*	*	*
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	*	*	*	-	-	-
Red peppers.....	-	-	-	-	-	-
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	*	*	*	*	*	*
Beetroot.....	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-
Onion	*	*	*	-	-	-
Potatoes.....	-	-	-	-	-	-
Garlic.....	-	-	-	-	-	-
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	*	*

Table 7- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Benshangul-Gumuz Region

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	137,153.24	2,717.76	1.98	1,632,898.50	35,683.22	2.19
Cereals	103,942.27	2,013.56	1.94	1,390,289.62	30,975.79	2.23
Teff	10,736.57	755.97	7.04	75,929.22	6,586.30	8.67
Barley.....	1,047.11	197.66	18.88	10,444.17	1,993.50	19.09
Wheat	891.15	183.91	20.64	9,706.76	2,074.50	21.37
Maize	20,482.45	682.21	3.33	412,525.16	14,548.22	3.53
Sorghum.....	52,375.42	1,431.67	2.73	670,390.38	21,355.75	3.19
Finger millet.....	17,279.16	790.24	4.57	198,786.33	10,714.71	5.39
Oats/'Aja'.....	27.60	7.14	25.88	213.81	67.97	31.79
Rice.	1,102.82	183.02	16.60	12,293.79	1,987.95	16.17
Pulses.	6,682.94	409.19	6.12	60,436.73	5,313.26	8.79
Horse beans.....	583.44	82.28	14.10	5,636.78	940.73	16.69
Field peas.....	719.30	127.71	17.75	5,047.73	992.65	19.67
Haricot beans.....	3,778.85	314.36	8.32	34,425.43	3,461.16	10.05
Chick-peas.....	368.07	73.00	19.83	2,268.20	762.62	33.62
Lentils.....	41.59	9.51	22.88	194.89	60.62	31.11
Vetch	20.06	8.05	40.11	22.97	8.94	38.92
Soya beans.....	1,131.94	191.54	16.92	12,424.30	3,662.03	29.47
Fenugreek.....	*	*	*	*	*	*
Gibto	34.60	12.67	36.62	394.73	161.27	40.86
Oilseeds.....	25,244.10	998.87	3.96	120,387.55	4,395.50	3.65
Neug.	13,432.58	904.39	6.73	37,954.42	2,349.18	6.19
Linseed.....	200.29	26.80	13.38	455.08	81.60	17.93
Groundnuts.....	2,388.46	264.92	11.09	22,787.00	2,535.65	11.13
Sunflower.....	94.14	25.15	26.72	634.51	177.60	27.99
Sesame.....	9,028.15	312.54	3.46	57,718.86	2,391.49	4.14
Rapeseed.....	100.47	17.06	16.98	837.69	183.51	21.91
Vegetables.....	882.86	59.66	6.76	21,652.48	2,543.54	11.75
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	2.19	.73	33.38	261.86	87.75	33.51
Ethiopian Cabbage....	*	*	*	*	*	*
Tomatoes.....	5.43	1.43	26.41	787.68	213.19	27.07
Green peppers.....	25.27	3.16	12.52	2,437.22	314.30	12.90
Red peppers.....	815.93	56.08	6.87	14,761.12	1,247.93	8.45
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	401.07	38.51	9.60	40,132.11	3,957.14	9.86
Beetroot.....	.36	.08	22.96	46.63	10.75	23.06
Carrot.....	1.20	.46	38.32	145.88	55.90	38.32
Onion	18.57	3.35	18.01	2,487.18	451.73	18.16
Potatoes.....	102.34	15.03	14.69	8,946.96	1,550.60	17.33
Garlic.....	21.46	4.10	19.12	3,180.72	615.37	19.35
Taro/'Godere'.....	9.36	2.76	29.47	748.45	220.55	29.47
Sweet potatoes.....	247.79	32.89	13.28	24,576.30	3,288.51	13.38

Table 7.1- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Bensihangul-Gumuz Region
Metekel Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	64,008.79	2,126.22	3.32	770,465.60	29,160.52	3.78
Cereals	48,365.88	1,628.32	3.37	652,573.31	25,599.17	3.92
Teff	6,649.39	664.02	9.99	59,080.82	6,404.68	10.84
Barley.....	977.40	196.88	20.14	9,991.62	1,990.15	19.92
Wheat	739.58	181.19	24.50	8,380.91	2,054.85	24.52
Maize	5,338.65	351.97	6.59	130,539.64	9,567.82	7.33
Sorghum.....	18,158.19	1,140.77	6.28	251,139.59	18,451.39	7.35
Finger millet.....	15,379.63	777.08	5.05	180,970.93	10,627.46	5.87
Oats/'Aja'.....	20.23	6.95	34.34	176.01	67.10	38.12
Rice	1,102.82	183.02	16.60	12,293.79	1,987.95	16.17
Pulses	4,333.65	373.41	8.62	43,689.53	5,064.54	11.59
Horse beans.....	515.98	81.08	15.71	5,292.20	937.99	17.72
Field peas.....	709.40	127.65	17.99	5,021.72	992.60	19.77
Haricot beans.....	2,101.84	271.30	12.91	20,570.14	3,052.21	14.84
Chick-peas.....	201.59	60.15	29.84	1,814.13	757.66	41.76
Lentils.....	38.54	9.24	23.98	194.89	60.62	31.11
Vetch	-	-	-	-	-	-
Soya beans.....	736.99	174.71	23.71	10,410.14	3,634.66	34.91
Fenugreek.....	*	*	*	*	*	*
Gibto	25.00	10.96	43.86	364.95	160.06	43.86
Oilseeds.....	10,818.95	731.56	6.76	53,971.85	3,616.38	6.70
Neug	5,874.04	620.58	10.56	16,338.49	1,634.33	10.00
Linseed.....	93.22	23.70	25.42	261.43	78.07	29.86
Groundnuts.....	1,916.83	247.98	12.94	20,151.91	2,484.99	12.33
Sufflower.....	70.79	22.35	31.57	452.00	147.31	32.59
Sesame.....	2,791.77	198.31	7.10	16,135.59	1,418.83	8.79
Rapeseed.....	72.29	14.03	19.41	632.42	157.85	24.96
Vegetables.....	379.27	36.40	9.60	7,987.56	781.32	9.78
Lettuce.....	*	*	*	-	-	-
Head Cabbage.....	*	*	*	-	-	-
Ethiopian Cabbage....	5.12	1.95	38.13	511.76	195.15	38.13
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	10.32	2.39	23.21	943.82	236.57	25.07
Red peppers.....	362.69	36.31	10.01	6,360.51	742.05	11.67
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	111.04	18.11	16.31	12,243.36	1,996.21	16.30
Beetroot.....	*	*	*	-	-	-
Carrot.....	*	*	*	*	*	*
Onion	3.46	.83	24.09	466.69	112.41	24.09
Potatoes.....	65.02	14.44	22.21	6,826.99	1,516.42	22.21
Garlic.....	16.55	3.76	22.74	2,474.23	564.38	22.81
Taro/'Godere'.....	6.31	2.50	39.70	504.74	200.38	39.70
Sweet potatoes.....	19.70	5.00	25.40	1,969.74	500.36	25.40

Table 7.2- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Benshangul-Gumuz Region
Asosa Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	52,627.71	1,648.30	3.13	520,403.36	19,362.85	3.72
Cereals	39,455.76	1,137.48	2.88	436,100.73	16,237.16	3.72
Teff	3,317.12	355.90	10.73	12,095.06	1,498.91	12.39
Barley.....	68.95	17.49	25.37	451.33	115.65	25.62
Wheat	151.57	31.49	20.78	1,325.85	284.85	21.48
Maize	9,854.52	567.42	5.76	157,814.93	10,239.00	6.49
Sorghum.....	25,010.71	839.52	3.36	255,467.46	10,020.55	3.92
Finger millet.....	1,048.50	130.18	12.42	8,937.33	1,231.31	13.78
Oats/'Aja'.....	4.39	1.30	29.64	8.77	2.56	29.18
Rice	-	-	-	-	-	-
Pulses	1,943.55	165.31	8.51	12,617.64	1,556.73	12.34
Horse beans.....	65.54	13.92	21.23	338.05	71.50	21.15
Field peas.....	9.44	3.81	40.29	25.37	9.89	38.97
Haricot beans.....	1,288.26	156.64	12.16	9,853.27	1,583.08	16.07
Chick-peas.....	152.49	41.26	27.06	333.71	83.32	24.97
Lentils.....	*	*	*	-	-	-
Vetch	20.06	8.05	40.11	22.97	8.94	38.92
Soya beans.....	394.33	78.52	19.91	2,014.16	446.87	22.19
Fenugreek.....	*	*	*	*	*	*
Gibto	*	*	*	*	*	*
Oilseeds.....	10,596.73	669.39	6.32	38,561.39	2,251.87	5.84
Neug.	7,048.46	657.03	9.32	19,491.95	1,675.71	8.60
Linseed.....	98.86	12.26	12.40	160.98	21.68	13.47
Groundnuts.....	438.64	93.12	21.23	2,436.97	503.42	20.66
Sufflower.....	23.21	11.54	49.72	*	*	*
Sesame.....	2,959.70	213.50	7.21	16,085.66	1,622.04	10.08
Rapeseed.....	27.85	9.69	34.80	203.32	93.58	46.03
Vegetables.....	424.02	46.57	10.98	11,633.28	2,416.08	20.77
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	1.99	.73	36.59	239.34	87.58	36.59
Ethiopian Cabbage....	*	*	*	*	*	*
Tomatoes.....	4.12	1.23	29.75	591.02	181.58	30.72
Green peppers.....	5.33	1.62	30.47	530.29	162.35	30.61
Red peppers.....	384.07	41.97	10.93	7,418.59	1,000.62	13.49
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	207.65	33.47	16.12	21,490.32	3,384.34	15.75
Beetroot.....	.28	.08	27.98	36.61	10.24	27.98
Carrot.....	.97	.45	46.69	118.53	55.34	46.69
Onion	14.33	3.24	22.57	1,914.78	436.85	22.81
Potatoes.....	20.19	3.08	15.27	2,119.97	323.77	15.27
Garlic.....	3.39	1.36	40.12	494.06	203.97	41.28
Taro/'Godere'.....	*	*	*	*	*	*
Sweet potatoes.....	166.36	32.19	19.35	16,635.71	3,218.86	19.35

Table 7.3- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Bensihangul-Gumuz Region
Kemashi Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	20,516.74	385.38	1.88	342,029.54	6,930.86	2.03
Cereals	16,120.63	330.36	2.05	301,615.59	6,366.85	2.11
Teff	770.05	62.51	8.12	4,753.34	335.53	7.06
Barley.....	*	*	*	*	*	*
Wheat	-	-	-	-	-	-
Maize	5,289.28	139.85	2.64	124,170.60	3,907.72	3.15
Sorghum.....	9,206.53	208.66	2.27	163,783.34	3,899.09	2.38
Finger millet.....	851.04	60.59	7.12	8,878.07	588.25	6.63
Oats/'Aja'.....	2.98	1.02	34.13	29.03	10.54	36.31
Rice	-	-	-	-	-	-
Pulses	405.73	26.10	6.43	4,129.57	397.14	9.62
Horse beans.....	*	*	*	*	*	*
Field peas.....	*	*	*	*	*	*
Haricot beans.....	388.74	26.09	6.71	4,002.03	396.84	9.92
Chick-peas.....	14.00	2.86	20.40	120.37	24.56	20.40
Lentils.....	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	3,828.42	120.37	3.14	27,854.31	1,082.24	3.89
Neug.	510.08	33.23	6.51	2,123.98	199.02	9.37
Linseed.....	8.20	2.44	29.76	32.66	9.73	29.80
Groundnuts.....	32.99	4.66	14.11	198.11	30.00	15.14
Sufflower.....	*	*	*	-	-	-
Sesame.....	3,276.68	113.02	3.45	25,497.60	1,036.88	4.07
Rapeseed.....	*	*	*	*	*	*
Vegetables.....	79.57	8.09	10.17	2,031.65	147.31	7.25
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	.19	.05	24.41	22.53	5.50	24.41
Ethiopian Cabbage....	.39	.16	41.29	38.78	16.01	41.29
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	9.63	1.28	13.32	963.12	128.30	13.32
Red peppers.....	69.17	8.02	11.59	982.03	73.90	7.53
Swiss chard.....	*	*	*	-	-	-
Root Crops.....	82.38	5.88	7.14	6,398.43	469.42	7.34
Beetroot.....	.08	.03	32.66	10.03	3.27	32.66
Carrot.....	.22	.06	30.00	26.36	7.91	30.00
Onion .....	.78	.18	23.02	105.71	24.33	23.02
Potatoes.....	17.13	2.82	16.46	-	-	-
Garlic.....	*	*	*	*	*	*
Taro/'Godere'.....	.91	.32	34.98	73.05	25.55	34.98
Sweet potatoes.....	61.73	4.58	7.41	5,970.86	450.38	7.54

Table 8- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	766,494.50	11,600.23	1.51	14,542,213.35	264,400.73	1.82
Cereals	575,655.43	9,619.59	1.67	7,273,190.58	157,506.80	2.17
Teff.	133,882.17	4,096.84	3.06	989,566.47	35,974.38	3.64
Barley.....	68,463.31	2,338.09	3.42	759,733.03	30,282.72	3.99
Wheat.....	92,351.77	3,029.93	3.28	1,353,706.49	57,287.69	4.23
Maize.....	191,490.02	6,103.70	3.19	3,270,377.22	125,142.32	3.83
Sorghum.....	84,276.06	2,965.84	3.52	842,009.46	31,708.66	3.77
Finger millet.....	4,527.18	393.30	8.69	51,518.49	5,626.90	10.92
Oats/'Aja'.....	626.57	70.39	11.23	6,279.42	820.24	13.06
Rice.	*	*	*	-	-	-
Pulses.....	108,559.86	2,778.77	2.56	964,611.17	30,865.10	3.20
Horse beans.....	47,008.42	1,547.71	3.29	488,930.08	20,981.76	4.29
Field peas.....	28,104.28	1,003.74	3.57	221,266.15	9,305.61	4.21
Haricot beans.....	26,799.10	1,409.84	5.26	209,074.91	14,284.37	6.83
Chick-peas.....	5,176.74	625.11	12.08	38,596.70	5,633.07	14.59
Lentils.....	739.25	70.89	9.59	2,605.13	282.99	10.86
Vetch.....	452.93	124.91	27.58	3,563.34	1,274.65	35.77
Soya beans.....	80.94	23.08	28.52	162.26	44.12	27.19
Fenugreek.....	198.19	33.70	17.01	412.61	74.03	17.94
Gibto.....	-	-	-	-	-	-
Oilseeds.....	3,370.09	331.09	9.82	11,313.57	1,193.49	10.55
Neug.....	925.17	231.32	25.00	2,062.84	442.78	21.46
Linseed.....	968.82	102.27	10.56	3,087.65	347.80	11.26
Groundnuts.....	521.39	175.43	33.65	2,647.98	942.61	35.60
Sunflower.....	174.57	31.42	18.00	1,326.09	327.92	24.73
Sesame.....	172.59	68.82	39.87	535.07	201.37	37.63
Rapeseed.....	607.54	93.02	15.31	1,653.93	253.50	15.33
Vegetables.....	25,869.24	1,298.45	5.02	1,228,777.26	51,343.73	4.18
Lettuce.....	3.33	1.51	45.38	*	*	*
Head Cabbage.....	89.50	26.18	29.25	10,689.09	3,140.99	29.39
Ethiopian Cabbage....	8,964.23	419.99	4.69	883,882.80	41,789.44	4.73
Tomatoes.....	76.04	16.95	22.29	10,873.06	2,537.78	23.34
Green peppers.....	634.53	90.81	14.31	61,296.95	9,065.68	14.79
Red peppers.....	16,056.72	1,198.50	7.46	259,428.98	25,036.11	9.65
Swiss chard.....	44.88	19.02	42.38	*	*	*
Root Crops.....	53,039.88	1,561.27	2.94	5,064,320.78	157,484.10	3.11
Beetroot.....	58.78	10.36	17.63	7,596.52	1,346.48	17.72
Carrot.....	34.64	11.16	32.20	4,142.96	1,360.00	32.83
Onion.....	1,219.73	115.04	9.43	164,045.74	15,527.86	9.47
Potatoes.....	10,233.55	1,106.86	10.82	1,074,251.16	116,221.15	10.82
Garlic.....	350.98	150.89	42.99	51,862.89	22,634.77	43.64
Taro/'Godere'.....	17,498.36	599.54	3.43	1,399,538.23	47,969.57	3.43
Sweet potatoes.....	23,643.84	750.12	3.17	2,362,883.30	75,011.17	3.17

Table 8.1- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Gurage Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	133,373.53	6,557.07	4.92	2,197,917.66	149,193.72	6.79
Cereals	105,281.79	4,941.96	4.69	1,403,989.58	75,565.78	5.38
Teff.	25,673.67	2,272.46	8.85	186,296.49	17,170.02	9.22
Barley.....	18,107.35	1,482.99	8.19	238,813.56	20,801.08	8.71
Wheat	14,949.48	1,079.08	7.22	208,070.84	20,437.55	9.82
Maize	36,409.06	2,355.72	6.47	666,561.44	47,760.44	7.17
Sorghum.....	9,817.02	702.15	7.15	100,298.58	9,379.18	9.35
Finger millet.....	201.19	64.14	31.88	2,617.97	1,015.93	38.81
Oats/'Aja'.....	124.01	21.72	17.52	1,330.69	270.64	20.34
Rice.	-	-	-	-	-	-
Pulses.	14,567.29	1,522.67	10.45	159,720.55	19,019.54	11.91
Horse beans.....	6,087.83	803.07	13.19	86,241.27	14,128.50	16.38
Field peas.....	3,336.47	393.31	11.79	32,293.90	4,181.69	12.95
Haricot beans.....	1,922.20	408.57	21.26	17,535.99	3,928.06	22.40
Chick-peas.....	2,554.22	534.47	20.92	19,644.66	4,330.18	22.04
Lentils.....	181.00	35.48	19.60	444.94	91.06	20.47
Vetch	423.95	124.65	29.40	3,452.34	1,272.66	36.86
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	59.85	24.50	40.94	107.45	49.16	45.75
Gibto	-	-	-	-	-	-
Oilseeds.....	1,093.92	230.38	21.06	2,866.25	465.64	16.25
Neug.	811.77	229.64	28.29	1,808.06	436.04	24.12
Linseed.....	165.39	26.28	15.89	455.03	99.28	21.82
Groundnuts.....	*	*	*	-	-	-
Sunflower.....	6.56	2.62	39.91	34.86	15.16	43.48
Sesame	*	*	*	*	*	*
Rapeseed.....	105.86	16.32	15.42	556.29	129.26	23.24
Vegetables.....	10,189.12	893.88	8.77	398,336.07	42,471.59	10.66
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	24.93	7.92	31.77	2,992.08	950.52	31.77
Ethiopian Cabbage....	2,507.04	360.31	14.37	248,883.87	36,048.53	14.48
Tomatoes.....	6.82	2.89	42.39	890.03	429.09	48.21
Green peppers.....	17.95	3.79	21.13	1,542.22	376.03	24.38
Red peppers.....	7,627.20	799.93	10.49	143,480.64	20,632.83	14.38
Swiss chard.....	3.66	1.41	38.56	401.26	168.50	41.99
Root Crops.....	2,241.41	431.06	19.23	233,005.21	51,483.27	22.10
Beetroot.....	6.05	1.26	20.80	785.22	163.67	20.84
Carrot.....	3.72	.78	20.88	453.69	94.75	20.88
Onion	*	*	*	*	*	*
Potatoes.....	1,248.42	278.85	22.34	131,011.43	29,278.86	22.35
Garlic.....	*	*	*	*	*	*
Taro/'Godere'.....	610.67	73.75	12.08	48,817.79	5,900.09	12.09
Sweet potatoes.....	*	*	*	*	*	*

Table 8.2- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Hadiya Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	106,694.81	4,337.56	4.07	1,811,657.42	79,534.46	4.39
Cereals	89,519.87	4,204.04	4.70	1,240,256.87	73,002.36	5.89
Teff.	21,199.16	2,305.03	10.87	197,793.08	24,362.36	12.32
Barley	5,688.66	656.85	11.55	57,576.16	7,912.72	13.74
Wheat	33,999.23	2,305.40	6.78	585,177.68	47,329.12	8.09
Maize	21,374.30	2,337.17	10.93	331,361.75	46,856.25	14.14
Sorghum.....	6,866.44	718.31	10.46	65,398.99	7,599.75	11.62
Finger millet.....	342.04	110.68	32.36	2,588.55	922.82	35.65
Oats/'Aja'.....	50.03	20.20	40.38	360.66	144.53	40.07
Rice.	-	-	-	-	-	-
Pulses.	11,193.67	1,161.07	10.37	116,947.18	13,175.23	11.27
Horse beans.....	7,069.41	882.46	12.48	81,362.76	10,805.92	13.28
Field peas.....	2,328.21	449.55	19.31	18,972.96	3,849.82	20.29
Haricot beans.....	1,120.09	184.73	16.49	8,607.57	2,218.80	25.78
Chick-peas.....	534.43	222.31	41.60	7,424.31	3,220.33	43.38
Lentils.....	116.03	34.69	29.90	460.18	158.77	34.50
Vetch	*	*	*	*	*	*
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	*	*	*	*	*	*
Gibto	-	-	-	-	-	-
Oilseeds.....	490.37	88.29	18.00	1,465.43	296.33	20.22
Neug.	*	*	*	-	-	-
Linseed.....	293.58	76.61	26.10	1,055.69	274.94	26.04
Groundnuts.....	*	*	*	-	-	-
Sufflower.....	*	*	*	-	-	-
Sesame.....	*	*	*	*	*	*
Rapeseed.....	185.67	39.69	21.38	404.52	139.47	34.48
Vegetables.....	2,675.10	414.49	15.49	169,618.91	10,751.83	6.34
Lettuce.....	*	*	*	-	-	-
Head Cabbage.....	3.07	1.11	36.22	316.51	127.22	40.19
Ethiopian Cabbage....	1,522.39	89.92	5.91	152,239.42	8,992.37	5.91
Tomatoes.....	17.06	8.01	46.91	2,559.55	1,200.77	46.91
Green peppers.....	14.13	3.96	28.02	1,088.51	336.67	30.93
Red peppers.....	1,116.08	372.67	33.39	13,156.03	4,071.35	30.95
Swiss chard.....	2.16	.95	43.92	258.90	113.70	43.92
Root Crops.....	2,815.81	312.07	11.08	283,369.03	30,920.27	10.91
Beetroot.....	15.89	5.33	33.54	2,065.09	692.64	33.54
Carrot.....	2.44	.80	32.93	297.61	97.99	32.93
Onion	59.16	18.06	30.53	7,986.40	2,438.28	30.53
Potatoes.....	1,241.99	163.04	13.13	130,287.65	17,123.97	13.14
Garlic.....	8.56	2.99	34.90	1,266.01	448.51	35.43
Taro/'Godere'.....	364.47	75.15	20.62	29,157.94	6,012.28	20.62
Sweet potatoes.....	1,123.30	242.50	21.59	112,308.33	24,252.59	21.59

Table 8.3- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Kembata Alaba Tembaro Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	72,575.72	2,778.69	3.83	1,457,946.87	59,453.06	4.08
Cereals	56,123.33	2,337.43	4.16	775,163.65	37,527.33	4.84
Teff.	10,931.95	972.19	8.89	74,900.15	7,978.56	10.65
Barley.....	1,252.37	134.56	10.74	12,114.19	1,484.92	12.26
Wheat	13,310.17	958.74	7.20	208,257.10	17,023.81	8.17
Maize	22,534.28	1,292.61	5.74	400,958.32	28,213.22	7.04
Sorghum.....	5,686.73	472.07	8.30	54,060.74	5,236.54	9.69
Finger millet.....	2,346.27	223.38	9.52	24,686.25	3,439.17	13.93
Oats/'Aja'.....	23.22	7.07	30.44	186.91	56.81	30.39
Rice.	*	*	*	-	-	-
Pulses.	5,173.72	346.68	6.70	42,442.12	3,426.19	8.07
Horse beans.....	2,813.81	264.09	9.39	29,659.21	3,058.83	10.31
Field peas.....	613.51	87.07	14.19	4,179.01	768.72	18.39
Haricot beans.....	1,566.58	204.14	13.03	8,343.67	1,434.49	17.19
Chick-peas.....	33.34	14.21	42.62	80.54	31.76	39.44
Lentils.....	72.44	31.82	43.92	71.33	25.66	35.98
Vetch	*	*	*	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	71.40	18.40	25.78	108.36	26.83	24.76
Gibto	-	-	-	-	-	-
Oilseeds.....	138.65	28.21	20.34	416.01	138.95	33.40
Neug.	*	*	*	-	-	-
Linseed.....	64.24	22.85	35.58	142.24	60.07	42.23
Groundnuts.....	*	*	*	-	-	-
Sufflower.....	*	*	*	-	-	-
Sesame.....	*	*	*	*	*	*
Rapeseed.....	63.75	19.81	31.07	258.54	127.94	49.48
Vegetables.....	6,771.13	660.97	9.76	208,390.30	17,045.37	8.18
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	19.35	9.50	49.12	2,321.50	1,140.26	49.12
Ethiopian Cabbage....	1,148.54	62.92	5.48	114,854.40	6,291.83	5.48
Tomatoes.....	11.33	3.61	31.90	1,699.44	542.05	31.90
Green peppers.....	9.67	3.89	40.17	766.99	366.79	47.82
Red peppers.....	5,580.34	639.79	11.47	88,547.25	13,241.28	14.95
Swiss chard.....	.58	.23	38.92	69.63	27.11	38.92
Root Crops.....	4,368.90	346.52	7.93	431,534.79	33,801.23	7.83
Beetroot.....	20.61	7.65	37.13	2,674.26	994.59	37.19
Carrot.....	*	*	*	*	*	*
Onion	90.06	26.25	29.14	12,042.58	3,542.78	29.42
Potatoes.....	1,554.37	170.37	10.96	163,208.50	17,889.05	10.96
Garlic.....	13.36	3.45	25.83	1,917.55	512.30	26.72
Taro/'Godere'.....	884.25	105.03	11.88	70,739.70	8,402.51	11.88
Sweet potatoes.....	1,791.46	241.51	13.48	179,145.56	24,151.49	13.48

Table 8.4- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Sidama Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	57,919.32	4,854.02	8.38	1,407,149.52	144,013.73	10.23
Cereals	40,878.72	3,611.73	8.84	634,617.84	72,188.59	11.38
Teff.	2,153.86	352.58	16.37	16,327.62	2,851.98	17.47
Barley.....	7,776.46	787.64	10.13	87,340.08	10,096.97	11.56
Wheat	4,841.05	606.63	12.53	70,180.02	10,217.22	14.56
Maize	24,674.44	3,632.48	14.72	441,984.50	72,938.30	16.50
Sorghum.....	1,312.96	209.04	15.92	16,255.69	3,362.21	20.68
Finger millet.....	36.85	18.26	49.56	*	*	*
Oats/'Aja'.....	83.10	35.04	42.16	1,265.56	510.62	40.35
Rice.	-	-	-	-	-	-
Pulses.	9,464.00	1,167.19	12.33	89,896.57	12,287.96	13.67
Horse beans.....	2,043.99	280.14	13.71	25,937.67	4,113.30	15.86
Field peas.....	1,345.71	307.19	22.83	13,340.56	3,554.50	26.64
Haricot beans.....	6,057.11	1,096.41	18.10	50,446.83	11,131.55	22.07
Chick-peas.....	*	*	*	*	*	*
Lentils.....	-	-	-	-	-	-
Vetch	*	*	*	*	*	*
Soya beans.....	*	*	*	*	*	*
Fenugreek.....	*	*	*	*	*	*
Gibto	-	-	-	-	-	-
Oilseeds.....	*	*	*	*	*	*
Neug.	-	-	-	-	-	-
Linseed.....	14.39	4.15	28.81	74.32	27.38	36.84
Groundnuts.....	*	*	*	-	-	-
Sufflower.....	*	*	*	-	-	-
Sesame.....	-	-	-	-	-	-
Rapeseed.....	*	*	*	*	*	*
Vegetables.....	2,556.70	473.49	18.52	172,267.40	14,792.35	8.59
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	1,431.38	134.50	9.40	143,138.07	13,450.11	9.40
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	230.79	61.01	26.43	22,368.33	6,083.88	27.20
Red peppers.....	*	*	*	6,242.28	2,502.73	40.09
Swiss chard.....	*	*	*	-	-	-
Root Crops.....	4,909.53	1,065.05	21.69	510,187.69	110,952.67	21.75
Beetroot.....	2.39	.98	41.10	310.78	127.72	41.10
Carrot.....	4.62	1.92	41.56	563.62	234.22	41.56
Onion	451.06	76.93	17.06	60,893.86	10,385.52	17.06
Potatoes.....	*	*	*	*	*	*
Garlic.....	12.73	3.75	29.44	1,876.60	562.96	30.00
Taro/'Godere'.....	243.45	39.96	16.41	19,476.34	3,196.71	16.41
Sweet potatoes.....	2,687.25	346.44	12.89	268,725.32	34,644.09	12.89

Table 8.5- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Gedio Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	13,229.78	1,362.75	10.30	294,118.59	29,049.02	9.88
Cereals	9,780.97	1,142.95	11.69	149,823.10	23,494.96	15.68
Teff	152.26	51.51	33.83	1,158.86	465.62	40.18
Barley.....	3,630.28	516.38	14.22	35,656.68	5,126.42	14.38
Wheat	1,152.35	490.44	42.56	12,637.29	5,480.23	43.37
Maize	4,782.98	732.68	15.32	99,650.38	21,349.10	21.42
Sorghum.....	47.94	17.25	35.99	719.89	232.43	32.29
Finger millet.....	*	*	*	-	-	-
Oats/'Aja'.....	*	*	*	-	-	-
Rice.....	-	-	-	-	-	-
Pulses.....	2,198.67	320.99	14.60	21,733.64	3,380.27	15.55
Horse beans.....	1,161.38	167.20	14.40	12,664.62	1,880.75	14.85
Field peas.....	932.32	220.49	23.65	8,631.91	2,379.73	27.57
Haricot beans.....	102.70	31.74	30.90	431.94	134.28	31.09
Chick-peas.....	*	*	*	-	-	-
Lentils.....	*	*	*	*	*	*
Vetch	-	-	-	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	48.85	15.57	31.88	90.60	27.26	30.08
Neug.....	*	*	*	-	-	-
Linseed.....	3.45	1.67	48.21	20.10	9.88	49.16
Groundnuts.....	*	*	*	-	-	-
Safflower.....	*	*	*	-	-	-
Sesame.....	-	-	-	-	-	-
Rapeseed.....	42.37	15.48	36.53	70.50	25.85	36.66
Vegetables.....	679.37	82.24	12.10	67,327.72	8,228.45	12.22
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	659.13	82.01	12.44	65,457.27	8,201.80	12.53
Tomatoes.....	-	-	-	-	-	-
Green peppers.....	18.24	5.20	28.52	1,824.15	520.22	28.52
Red peppers.....	*	*	*	*	*	*
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	521.92	71.21	13.64	55,143.52	7,407.31	13.43
Beetroot.....	*	*	*	*	*	*
Carrot.....	*	*	*	*	*	*
Onion	164.65	30.13	18.30	22,227.13	4,068.03	18.30
Potatoes.....	14.15	4.50	31.81	1,485.52	472.53	31.81
Garlic.....	1.31	.62	47.64	-	-	-
Taro/'Godere'.....	138.69	25.16	18.14	11,095.59	2,013.16	18.14
Sweet potatoes.....	202.23	59.08	29.21	20,223.11	5,907.52	29.21

Table 8.6- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Wolayita Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	63,605.75	2,458.91	3.87	2,365,965.08	68,360.99	2.89
Cereals	35,799.81	2,123.79	5.93	444,868.43	33,251.42	7.47
Teff	10,775.09	773.58	7.18	69,860.21	6,371.93	9.12
Barley.....	1,420.43	320.83	22.59	11,554.03	3,059.01	26.48
Wheat	1,985.77	405.69	20.43	24,378.05	5,131.30	21.05
Maize	18,478.43	1,706.42	9.23	311,704.35	31,430.61	10.08
Sorghum.....	2,981.46	292.48	9.81	26,482.40	2,665.88	10.07
Finger millet.....	144.42	67.14	46.49	835.58	367.41	43.97
Oats/'Aja'.....	*	*	*	*	*	*
Rice.....	-	-	-	-	-	-
Pulses.....	8,412.90	540.91	6.43	67,039.69	6,082.05	9.07
Horse beans.....	825.61	137.37	16.64	7,752.17	1,409.14	18.18
Field peas.....	1,403.11	188.66	13.45	10,265.79	1,565.34	15.25
Haricot beans.....	5,435.78	511.68	9.41	44,585.17	5,922.86	13.28
Chick-peas.....	732.72	162.38	22.16	4,358.34	827.36	18.98
Lentils.....	9.06	3.06	33.72	25.61	8.72	34.05
Vetch	-	-	-	-	-	-
Soya beans.....	6.50	3.17	48.76	52.62	25.65	48.76
Fenugreek.....	*	*	*	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	53.23	18.26	34.30	275.42	113.67	41.27
Neug.....	-	-	-	-	-	-
Linseed.....	35.97	16.20	45.05	*	*	*
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	*	*	*	*	*	*
Sesame.....	-	-	-	-	-	-
Rapeseed.....	2.93	1.44	49.11	3.04	1.49	49.02
Vegetables.....	682.25	108.46	15.90	50,059.21	9,402.52	18.78
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	297.82	67.30	22.60	29,443.65	6,732.85	22.87
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	170.48	62.73	36.79	16,851.11	6,272.40	37.22
Red peppers.....	209.23	54.74	26.16	3,326.37	1,394.45	41.92
Swiss chard.....	*	*	*	-	-	-
Root Crops.....	18,657.57	593.17	3.18	1,803,722.33	58,041.27	3.22
Beetroot.....	*	*	*	*	*	*
Carrot.....	*	*	*	*	*	*
Onion	63.91	28.19	44.11	8,335.13	3,794.20	45.52
Potatoes.....	1,966.32	152.49	7.76	206,464.02	16,011.72	7.76
Garlic.....	*	*	*	*	*	*
Taro/'Godere'.....	3,706.51	182.92	4.94	296,521.17	14,633.69	4.94
Sweet potatoes.....	12,910.54	497.22	3.85	1,291,053.82	49,722.35	3.85

Table 8.7- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
South Omo Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	21,751.27	1,133.39	5.21	309,532.28	21,861.74	7.06
Cereals	17,895.50	1,021.39	5.71	195,959.38	14,936.69	7.62
Teff.	1,986.59	318.22	16.02	16,294.72	3,083.93	18.93
Barley.....	2,013.98	404.83	20.10	20,883.44	4,592.36	21.99
Wheat.....	548.27	173.07	31.57	9,393.51	4,243.41	45.17
Maize.....	5,297.82	797.13	15.05	77,690.86	13,555.47	17.45
Sorghum.....	7,990.61	783.91	9.81	71,365.40	8,641.47	12.11
Finger millet.....	57.91	13.59	23.46	331.46	79.55	24.00
Oats/'Aja'.....	*	*	*	-	-	-
Rice.....	-	-	-	-	-	-
Pulses.....	2,715.31	422.65	15.57	27,376.51	4,738.78	17.31
Horse beans.....	1,089.93	257.01	23.58	12,842.83	3,425.21	26.67
Field peas.....	711.04	208.93	29.38	5,453.61	1,510.11	27.69
Haricot beans.....	902.26	144.04	15.96	9,056.89	2,299.75	25.39
Chick-peas.....	*	*	*	-	-	-
Lentils.....	*	*	*	*	*	*
Vetch.....	*	*	*	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	*	*	*	-	-	-
Gibto.....	-	-	-	-	-	-
Oilseeds.....	200.80	33.99	16.93	1,400.83	342.03	24.42
Neug.....	*	*	*	-	-	-
Linseed.....	32.16	7.94	24.69	76.59	19.02	24.83
Groundnuts.....	*	*	*	52.13	23.18	44.45
Sufflower.....	130.09	29.23	22.47	1,199.64	324.22	27.03
Sesame.....	22.16	9.29	41.92	65.93	27.02	40.98
Rapeseed.....	*	*	*	*	*	*
Vegetables.....	126.73	27.22	21.48	12,986.24	3,080.88	23.72
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage.....	99.76	16.26	16.30	9,975.88	1,626.08	16.30
Tomatoes.....	*	*	*	-	-	-
Green peppers.....	*	*	*	*	*	*
Red peppers.....	.65	.24	36.32	5.52	2.01	36.32
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	812.93	152.50	18.76	71,809.31	12,891.56	17.95
Beetroot.....	-	-	-	-	-	-
Carrot.....	*	*	*	-	-	-
Onion.....	33.19	13.90	41.89	4,475.91	1,876.79	41.93
Potatoes.....	*	*	*	*	*	*
Garlic.....	2.48	.64	26.01	368.10	96.65	26.26
Taro/'Godere'.....	557.80	141.59	25.38	44,624.16	11,327.47	25.38
Sweet potatoes.....	140.40	44.05	31.38	14,040.20	4,405.40	31.38

Table 8.8- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Sheka Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	9,781.15	913.86	9.34	165,817.52	18,590.26	11.21
Cereals	7,128.00	781.52	10.96	111,762.78	14,499.63	12.97
Teff	587.97	33.35	5.67	3,797.52	214.12	5.64
Barley	279.31	41.85	14.98	1,785.15	411.24	23.04
Wheat	210.64	84.34	40.04	*	*	*
Maize	1,154.13	273.66	23.71	18,552.22	5,954.62	32.10
Sorghum	4,664.73	470.73	10.09	82,693.55	9,455.15	11.43
Finger millet	*	*	*	*	*	*
Oats/'Aja'	*	*	*	*	*	*
Rice	-	-	-	-	-	-
Pulses	2,098.58	206.82	9.86	11,995.95	1,217.86	10.15
Horse beans	758.82	63.59	8.38	4,443.69	404.97	9.11
Field peas	1,260.59	156.95	12.45	6,489.43	762.04	11.74
Haricot beans	77.15	33.54	43.47	*	*	*
Chick-peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	*	*	*	-	-	-
Soya beans	*	*	*	-	-	-
Fenugreek	*	*	*	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	*	*	*	*	*	*
Neug	-	-	-	-	-	-
Linseed	*	*	*	*	*	*
Groundnuts	-	-	-	-	-	-
Sufflower	*	*	*	-	-	-
Sesame	*	*	*	*	*	*
Rapeseed	9.65	4.70	48.68	*	*	*
Vegetables	168.78	51.74	30.66	8,647.08	1,661.72	19.22
Lettuce	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-
Ethiopian Cabbage	46.72	15.03	32.17	4,660.91	1,502.86	32.24
Tomatoes	*	*	*	*	*	*
Green peppers	28.35	7.65	26.98	2,643.81	761.21	28.79
Red peppers	*	*	*	1,079.20	450.03	41.70
Swiss chard	*	*	*	*	*	*
Root Crops	359.80	46.68	12.97	33,278.75	5,357.47	16.10
Beetroot	*	*	*	*	*	*
Carrot	*	*	*	*	*	*
Onion	*	*	*	*	*	*
Potatoes	28.05	14.00	49.93	2,944.86	1,470.34	49.93
Garlic	2.62	.46	17.54	348.81	66.82	19.16
Taro/'Godere'	253.82	32.97	12.99	20,305.64	2,637.36	12.99
Sweet potatoes	*	*	*	*	*	*

Table 8.9- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Keffa Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	83,735.36	2,632.44	3.14	1,096,738.66	47,955.14	4.37
Cereals	57,945.92	2,222.36	3.84	755,959.25	44,676.11	5.91
Teff	15,189.45	747.76	4.92	119,437.23	7,300.02	6.11
Barley.....	7,839.55	477.87	6.10	73,132.30	5,761.53	7.88
Wheat	8,186.64	516.18	6.31	92,799.58	6,546.55	7.05
Maize	17,850.09	1,673.28	9.37	356,130.94	42,097.73	11.82
Sorghum.....	7,896.41	488.06	6.18	101,172.79	6,282.29	6.21
Finger millet.....	810.71	177.95	21.95	11,342.43	2,723.70	24.01
Oats/'Aja'.....	173.07	41.41	23.93	1,943.98	491.79	25.30
Rice	-	-	-	-	-	-
Pulses	23,534.23	801.40	3.41	191,136.44	7,532.93	3.94
Horse beans.....	13,644.39	508.00	3.72	117,994.22	4,944.60	4.19
Field peas.....	8,299.05	411.53	4.96	61,346.22	3,427.91	5.59
Haricot beans.....	1,568.61	153.21	9.77	11,768.40	1,470.01	12.49
Chick-peas.....	*	*	*	-	-	-
Lentils.....	*	*	*	*	*	*
Vetch	*	*	*	*	*	*
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	2.33	1.13	48.51	*	*	*
Gibto	-	-	-	-	-	-
Oilseeds.....	99.76	18.77	18.82	266.89	48.92	18.33
Neug.	*	*	*	*	*	*
Linseed.....	50.18	7.70	15.35	163.01	27.08	16.61
Groundnuts.....	*	*	*	-	-	-
Sunflower.....	*	*	*	-	-	-
Sesame.....	*	*	*	-	-	-
Rapeseed.....	13.81	4.44	32.19	33.54	13.28	39.59
Vegetables.....	804.35	162.29	20.18	37,415.94	2,315.90	6.19
Lettuce.....	*	*	*	*	*	*
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	304.50	18.65	6.12	30,449.55	1,864.84	6.12
Tomatoes.....	-	-	-	-	-	-
Green peppers.....	28.83	5.28	18.31	2,846.67	528.23	18.56
Red peppers.....	460.19	162.39	35.29	2,819.69	839.85	29.79
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	1,351.10	129.39	9.58	111,960.15	10,347.65	9.24
Beetroot.....	.91	.35	38.15	118.55	45.22	38.15
Carrot.....	*	*	*	*	*	*
Onion	14.46	4.63	31.99	1,950.78	624.64	32.02
Potatoes.....	41.74	11.88	28.46	4,382.30	1,247.25	28.46
Garlic.....	24.04	9.98	41.52	3,594.72	1,496.94	41.64
Taro/'Godere'.....	1,253.90	130.65	10.42	100,306.18	10,451.88	10.42
Sweet potatoes.....	15.92	4.91	30.86	1,592.09	491.37	30.86

Table 8.10- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Gamo Gofa Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	87,740.76	3,119.12	3.55	1,738,108.86	75,857.28	4.36
Cereals	67,845.30	2,699.49	3.98	761,813.71	39,569.10	5.19
Teff	20,497.48	1,608.28	7.85	137,756.09	12,045.69	8.74
Barley	14,699.35	1,074.90	7.31	167,836.78	13,190.56	7.86
Wheat	7,334.63	742.53	10.12	87,176.87	9,681.10	11.11
Maize	16,149.14	1,487.83	9.21	272,456.90	33,633.23	12.34
Sorghum.....	8,917.71	1,044.85	11.72	93,777.70	12,125.60	12.93
Finger millet.....	225.70	102.70	45.50	2,658.43	1,290.38	48.54
Oats/'Aja'.....	*	*	*	*	*	*
Rice.....	-	-	-	-	-	-
Pulses.....	10,263.49	864.30	8.42	93,538.23	8,537.19	9.13
Horse beans.....	3,941.23	488.18	12.39	41,575.07	5,253.15	12.64
Field peas.....	2,834.43	345.18	12.18	26,276.62	3,446.60	13.12
Haricot beans.....	2,780.62	275.43	9.91	20,934.57	2,208.88	10.55
Chick-peas.....	579.40	140.72	24.29	4,100.11	1,325.75	32.33
Lentils.....	70.04	20.36	29.07	481.40	151.31	31.43
Vetch	*	*	*	-	-	-
Soya beans.....	27.50	10.45	37.99	103.62	35.74	34.49
Fenugreek.....	20.73	5.76	27.76	66.85	17.54	26.24
Gibto	-	-	-	-	-	-
Oilseeds.....	555.02	174.22	31.39	2,645.74	930.73	35.18
Neug.....	*	*	*	*	*	*
Linseed.....	56.88	13.38	23.52	256.74	68.87	26.83
Groundnuts.....	411.78	171.03	41.53	2,133.21	922.66	43.25
Sufflower.....	6.01	2.22	36.96	21.63	7.99	36.96
Sesame.....	43.19	9.45	21.89	127.08	28.26	22.24
Rapeseed.....	*	*	*	*	*	*
Vegetables.....	440.03	43.46	9.88	42,852.93	4,229.76	9.87
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	340.21	35.25	10.36	34,001.81	3,525.08	10.37
Tomatoes.....	33.66	13.97	41.52	5,048.40	2,096.18	41.52
Green peppers.....	37.11	9.86	26.57	3,612.14	982.12	27.19
Red peppers.....	6.18	2.12	34.33	75.12	32.10	42.73
Swiss chard.....	*	*	*	-	-	-
Root Crops.....	8,636.93	582.29	6.74	837,258.25	54,264.09	6.48
Beetroot.....	*	*	*	*	*	*
Carrot.....	*	*	*	*	*	*
Onion	90.76	23.02	25.36	12,253.28	3,107.80	25.36
Potatoes.....	2,262.30	281.58	12.45	237,542.04	29,565.72	12.45
Garlic.....	15.45	4.20	27.15	2,314.65	629.31	27.19
Taro/'Godere'.....	2,076.26	331.08	15.95	165,882.59	26,497.54	15.97
Sweet potatoes.....	4,190.42	264.33	6.31	419,041.57	26,432.83	6.31

Table 8.11- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Bench-Maji Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	21,885.81	1,442.10	6.59	536,817.36	33,852.52	6.31
Cereals	16,237.87	1,329.73	8.19	231,467.10	23,460.17	10.14
Teff.	1,940.93	434.73	22.40	12,008.26	1,949.23	16.23
Barley.....	664.23	129.19	19.45	5,876.36	994.14	16.92
Wheat	237.86	51.61	21.70	1,919.84	534.31	27.83
Maize	9,452.70	962.07	10.18	153,163.93	17,573.26	11.47
Sorghum.....	3,810.71	452.42	11.87	56,365.19	9,859.57	17.49
Finger millet.....	126.63	48.17	38.04	2,075.59	774.22	37.30
Oats/'Aja'.....	4.81	1.98	41.20	57.94	25.03	43.21
Rice.	-	-	-	-	-	-
Pulses.	1,963.32	189.87	9.67	18,492.91	1,777.99	9.61
Horse beans.....	894.50	112.74	12.60	8,080.93	926.93	11.47
Field peas.....	643.91	136.51	21.20	5,324.68	1,274.62	23.94
Haricot beans.....	413.73	38.22	9.24	5,064.21	512.71	10.12
Chick-peas.....	-	-	-	-	-	-
Lentils.....	6.53	1.80	27.60	22.11	9.84	44.50
Vetch	*	*	*	-	-	-
Soya beans.....	.40	.19	46.30	-	-	-
Fenugreek.....	*	*	*	*	*	*
Gibto	-	-	-	-	-	-
Oilseeds.....	163.89	71.42	43.58	399.09	189.41	47.46
Neug.	*	*	*	-	-	-
Linseed.....	12.14	1.65	13.62	53.32	7.26	13.62
Groundnuts.....	*	*	*	-	-	-
Sufflower.....	*	*	*	-	-	-
Sesame.....	*	*	*	*	*	*
Rapeseed.....	68.84	28.04	40.73	104.61	37.57	35.91
Vegetables.....	271.70	24.63	9.07	25,425.64	2,426.15	9.54
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	195.30	19.19	9.83	19,530.23	1,918.87	9.83
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	54.46	16.99	31.20	5,445.64	1,699.01	31.20
Red peppers.....	*	*	*	*	*	*
Swiss chard.....	*	*	*	-	-	-
Root Crops.....	3,249.02	345.07	10.62	261,032.62	27,658.53	10.60
Beetroot.....	*	*	*	*	*	*
Carrot.....	*	*	*	*	*	*
Onion	4.13	.76	18.37	558.03	102.50	18.37
Potatoes.....	.72	.35	49.37	75.12	37.08	49.37
Garlic.....	1.59	.73	45.75	238.17	108.96	45.75
Taro/'Godere'.....	3,207.87	344.08	10.73	256,629.68	27,526.62	10.73
Sweet potatoes.....	*	*	*	*	*	*

Table 8.12- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Yem Special Wereda

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	13,414.70	598.59	4.46	150,128.44	8,492.89	5.66
Cereals	10,515.73	510.71	4.86	101,601.10	6,241.77	6.14
Teff	3,718.93	326.66	8.78	31,300.29	3,016.91	9.64
Barley	1,374.79	178.26	12.97	11,799.48	1,737.76	14.73
Wheat	3,097.77	304.73	9.84	29,842.77	3,193.15	10.70
Maize	1,704.55	209.70	12.30	22,390.46	3,514.29	15.70
Sorghum	610.24	105.60	17.31	6,196.36	1,178.17	19.01
Finger millet	-	-	-	-	-	-
Oats/'Aja'	9.46	3.55	37.52	71.74	27.52	38.36
Rice	-	-	-	-	-	-
Pulses	2,379.09	204.61	8.60	19,346.43	2,032.70	10.51
Horse beans	1,389.48	135.57	9.76	12,932.64	1,596.73	12.35
Field peas	882.29	120.09	13.61	6,004.82	804.81	13.40
Haricot beans	3.60	1.62	45.03	-	-	-
Chick-peas	*	*	*	*	*	*
Lentils	89.58	14.75	16.46	357.38	67.22	18.81
Vetch	*	*	*	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	2.79	.62	22.08	9.18	2.06	22.48
Gibto	-	-	-	-	-	-
Oilseeds	201.72	58.20	28.85	412.82	118.29	28.65
Neug.	46.51	17.94	38.56	93.55	35.00	37.41
Linseed	148.12	51.43	34.72	305.56	109.93	35.98
Groundnuts	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	7.09	2.65	37.45	13.71	5.10	37.17
Vegetables	61.70	7.51	12.18	6,108.53	752.23	12.31
Lettuce	*	*	*	-	-	-
Head Cabbage	*	*	*	*	*	*
Ethiopian Cabbage	55.89	7.31	13.08	5,589.15	730.94	13.08
Tomatoes	*	*	*	*	*	*
Green peppers	1.83	.85	46.53	183.16	85.22	46.53
Red peppers	*	*	*	*	*	*
Swiss chard	*	*	*	*	*	*
Root Crops	256.45	49.57	19.33	22,659.56	4,115.72	18.16
Beetroot	.49	.15	30.82	63.06	19.44	30.82
Carrot	.23	.11	47.00	28.29	13.30	47.00
Onion	.32	.14	43.11	43.08	18.57	43.11
Potatoes	55.12	10.58	19.20	5,787.33	1,111.22	19.20
Garlic	4.56	.76	16.56	596.51	115.51	19.36
Taro/'Godere'	171.61	43.38	25.28	13,729.09	3,470.43	25.28
Sweet potatoes	24.12	9.04	37.50	2,412.19	904.49	37.50

Table 8.13- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Amaro Special Wereda

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	4,857.74	631.99	13.01	60,234.82	9,290.43	15.42
Cereals	3,928.27	598.85	15.24	38,733.37	6,799.20	17.55
Teff.	1,995.78	530.28	26.57	18,532.49	6,052.88	32.66
Barley.....	1,009.53	196.39	19.45	9,552.27	2,075.96	21.73
Wheat	440.67	115.65	26.24	5,745.66	1,813.59	31.56
Maize	294.67	130.06	44.14	*	*	*
Sorghum.....	184.58	59.98	32.50	942.60	326.32	34.62
Finger millet.....	-	-	-	-	-	-
Oats/'Aja'.....	*	*	*	-	-	-
Rice.....	-	-	-	-	-	-
Pulses.....	775.28	118.69	15.31	5,676.42	1,058.22	18.64
Horse beans.....	213.82	54.21	25.35	2,077.06	554.90	26.72
Field peas.....	389.21	83.47	21.45	2,846.80	619.85	21.77
Haricot beans.....	117.31	28.56	24.34	452.48	109.34	24.16
Chick-peas.....	*	*	*	*	*	*
Lentils.....	13.29	5.74	43.23	82.43	36.93	44.80
Vetch	*	*	*	-	-	-
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	*	*	*	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	1.22	.54	44.71	*	*	*
Neug.	-	-	-	-	-	-
Linseed.....	*	*	*	*	*	*
Groundnuts.....	*	*	*	-	-	-
Sufflower.....	*	*	*	-	-	-
Sesame.....	-	-	-	-	-	-
Rapeseed.....	*	*	*	-	-	-
Vegetables.....	78.33	21.69	27.69	7,267.60	2,128.33	29.29
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	72.68	21.28	29.29	7,267.60	2,128.33	29.29
Tomatoes.....	-	-	-	-	-	-
Green peppers.....	*	*	*	-	-	-
Red peppers.....	*	*	*	-	-	-
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	74.64	22.65	30.35	8,553.66	2,784.56	32.55
Beetroot.....	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-
Onion	*	*	*	*	*	*
Potatoes.....	*	*	*	-	-	-
Garlic.....	-	-	-	-	-	-
Taro/'Godere'.....	1.22	.55	45.11	97.74	44.09	45.11
Sweet potatoes.....	38.73	15.13	39.06	3,872.68	1,512.51	39.06

Table 8.14- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Burji Special Wereda

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	4,489.93	343.80	7.66	34,751.10	2,547.95	7.33
Cereals	2,949.84	258.21	8.75	23,623.93	2,303.51	9.75
Teff.	1,034.71	138.61	13.40	6,205.08	1,096.94	17.68
Barley.....	189.91	15.66	8.25	1,014.63	130.05	12.82
Wheat	365.90	34.49	9.43	1,637.61	158.75	9.69
Maize	603.25	99.56	16.50	10,186.17	1,746.34	17.14
Sorghum.....	755.23	178.77	23.67	4,580.46	1,059.79	23.14
Finger millet.....	-	-	-	-	-	-
Oats/'Aja'.....	*	*	*	-	-	-
Rice.	-	-	-	-	-	-
Pulses.	1,512.59	157.19	10.39	8,782.81	974.47	11.10
Horse beans.....	*	*	*	*	*	*
Field peas.....	65.97	19.52	29.58	422.73	146.42	34.64
Haricot beans.....	1,129.53	145.00	12.84	6,584.28	907.16	13.78
Chick-peas.....	253.26	42.02	16.59	1,364.51	292.90	21.47
Lentils.....	32.28	10.49	32.49	*	*	*
Vetch	*	*	*	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	8.35	3.28	39.31	16.26	6.65	40.88
Gibto	-	-	-	-	-	-
Oilseeds.....	*	*	*	*	*	*
Neug.	-	-	-	-	-	-
Linseed.....	*	*	*	*	*	*
Groundnuts.....	-	-	-	-	-	-
Sufflower.....	*	*	*	-	-	-
Sesame.....	-	-	-	-	-	-
Rapeseed.....	*	*	*	-	-	-
Vegetables.....	10.46	2.36	22.56	904.39	232.46	25.70
Lettuce.....	*	*	*	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	9.22	2.32	25.14	904.39	232.46	25.70
Tomatoes.....	*	*	*	-	-	-
Green peppers.....	*	*	*	-	-	-
Red peppers.....	*	*	*	-	-	-
Swiss chard.....	*	*	*	-	-	-
Root Crops.....	12.21	2.09	17.13	1,427.91	254.71	17.84
Beetroot.....	*	*	*	-	-	-
Carrot.....	-	-	-	-	-	-
Onion	6.50	1.67	25.69	877.85	225.54	25.69
Potatoes.....	1.77	.71	40.40	185.78	75.05	40.40
Garlic.....	*	*	*	-	-	-
Taro/'Godere'.....	*	*	*	-	-	-
Sweet potatoes.....	3.64	1.20	33.00	364.28	120.23	33.00

Table 8.15- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Konso Special Wereda

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	16,660.25	1,734.65	10.41	87,866.68	17,573.69	20.00
Cereals	14,353.00	1,563.69	10.89	67,882.65	15,677.81	23.10
Teff	2,072.06	565.55	27.29	10,832.57	3,628.83	33.50
Barley.....	93.78	42.06	44.85	*	*	*
Wheat	*	*	*	*	*	*
Maize	3,584.72	883.23	24.64	26,966.89	11,115.59	41.22
Sorghum.....	8,547.25	1,025.85	12.00	29,447.03	4,339.40	14.74
Finger millet.....	*	*	*	-	-	-
Oats/'Aja'.....	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	2,117.80	256.41	12.11	11,522.54	1,967.28	17.07
Horse beans.....	-	-	-	-	-	-
Field peas.....	386.29	78.90	20.42	1,357.00	296.85	21.88
Haricot beans.....	1,593.86	226.37	14.20	9,952.51	1,967.28	19.77
Chick-peas.....	*	*	*	*	*	*
Lentils.....	*	*	*	*	*	*
Vetch	-	-	-	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	*	*	*	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	*	*	*	*	*	*
Neug.	-	-	-	-	-	-
Linseed.....	*	*	*	-	-	-
Groundnuts.....	-	-	-	-	-	-
Sufflower.....	*	*	*	*	*	*
Sesame.....	-	-	-	-	-	-
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	98.09	43.41	44.26	*	*	*
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage.....	97.74	43.44	44.44	-	-	-
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	-	-	-	-	-	-
Red peppers.....	*	*	*	-	-	-
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	*	*	*	*	*	*
Beetroot.....	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-
Onion	*	*	*	*	*	*
Potatoes.....	*	*	*	*	*	*
Garlic.....	-	-	-	-	-	-
Taro/'Godere'.....	*	*	*	-	-	-
Sweet potatoes.....	14.44	5.52	38.20	1,443.91	551.64	38.20

Table 8.16- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Derashe Special Wereda

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	14,666.17	2,527.12	17.23	135,472.42	21,854.50	16.13
Cereals	13,462.91	2,429.94	18.05	112,712.01	21,533.26	19.10
Teff	1,676.24	177.92	10.61	13,256.04	1,809.46	13.65
Barley.....	315.75	71.41	22.62	2,023.60	559.29	27.64
Wheat	186.29	51.53	27.66	2,058.09	622.68	30.25
Maize	3,065.53	537.73	17.54	21,910.07	3,999.13	18.25
Sorghum.....	8,219.11	1,943.52	23.65	73,464.22	18,136.91	24.69
Finger millet.....	-	-	-	-	-	-
Oats/'Aja'.....	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses.....	1,041.33	156.88	15.07	5,740.34	840.26	14.64
Horse beans.....	41.57	16.51	39.72	209.70	73.58	35.09
Field peas.....	64.67	24.85	38.43	180.32	79.73	44.22
Haricot beans.....	687.15	116.31	16.93	4,546.87	822.66	18.09
Chick-peas.....	219.61	59.54	27.11	735.83	195.54	26.57
Lentils.....	*	*	*	*	*	*
Vetch	-	-	-	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	*	*	*	*	*	*
Gibto	-	-	-	-	-	-
Oilseeds.....	2.31	1.14	49.24	*	*	*
Neug.....	-	-	-	-	-	-
Linseed.....	*	*	*	*	*	*
Groundnuts.....	-	-	-	-	-	-
Sufflower.....	*	*	*	-	-	-
Sesame.....	-	-	-	-	-	-
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	58.14	16.37	28.16	5,602.93	1,649.16	29.43
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	50.58	15.68	31.01	4,952.95	1,573.50	31.77
Tomatoes.....	*	*	*	-	-	-
Green peppers.....	*	*	*	*	*	*
Red peppers.....	*	*	*	-	-	-
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	101.48	27.50	27.10	11,412.74	3,599.26	31.54
Beetroot.....	*	*	*	*	*	*
Carrot.....	-	-	-	-	-	-
Onion	78.99	26.17	33.13	10,664.24	3,532.96	33.13
Potatoes.....	6.23	2.12	34.01	654.22	222.52	34.01
Garlic.....	*	*	*	*	*	*
Taro/'Godere'.....	*	*	*	-	-	-
Sweet potatoes.....	14.75	5.59	37.91	-	-	-

Table 8.17- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Dawro Zone

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	29,566.25	1,323.94	4.48	480,601.57	19,109.82	3.98
Cereals	18,703.39	1,039.28	5.56	141,086.09	8,367.05	5.93
Teff.	8,997.09	565.90	6.29	46,998.10	3,016.03	6.42
Barley.....	891.28	125.04	14.03	6,624.41	1,014.35	15.31
Wheat	1,194.91	181.28	15.17	9,316.34	1,508.10	16.19
Maize	3,052.36	334.56	10.96	36,903.52	4,450.67	12.06
Sorghum.....	4,488.21	405.50	9.03	40,692.21	3,368.18	8.28
Finger millet.....	-	-	-	-	-	-
Oats/'Aja'.....	79.54	21.91	27.55	551.52	162.66	29.49
Rice.....	-	-	-	-	-	-
Pulses.....	7,230.70	489.03	6.76	53,524.28	4,101.49	7.66
Horse beans.....	3,805.43	306.11	8.04	31,089.71	2,860.04	9.20
Field peas.....	2,177.09	225.61	10.36	14,072.83	1,680.48	11.94
Haricot beans.....	1,045.66	262.12	25.07	7,678.53	2,035.48	26.51
Chick-peas.....	90.36	17.91	19.83	322.78	80.45	24.92
Lentils.....	105.58	21.16	20.05	343.07	67.68	19.73
Vetch	*	*	*	*	*	*
Soya beans.....	*	*	*	*	*	*
Fenugreek.....	*	*	*	*	*	*
Gibto	-	-	-	-	-	-
Oilseeds.....	156.87	37.66	24.01	688.14	191.01	27.76
Neug.	*	*	*	*	*	*
Linseed.....	71.66	10.34	14.43	236.53	46.70	19.75
Groundnuts.....	*	*	*	432.22	190.72	44.13
Sufflower.....	-	-	-	-	-	-
Sesame.....	*	*	*	-	-	-
Rapeseed.....	8.69	3.70	42.50	17.05	6.81	39.92
Vegetables.....	182.55	24.64	13.50	14,163.18	1,395.07	9.85
Lettuce.....	*	*	*	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	116.62	8.88	7.61	11,661.99	887.72	7.61
Tomatoes.....	*	*	*	-	-	-
Green peppers.....	7.77	2.00	25.71	721.60	196.75	27.27
Red peppers.....	44.73	21.59	48.25	294.59	112.84	38.30
Swiss chard.....	*	*	*	*	*	*
Root Crops.....	3,292.74	163.76	4.97	271,139.88	13,428.99	4.95
Beetroot.....	*	*	*	*	*	*
Carrot.....	*	*	*	-	-	-
Onion	3.19	.89	28.04	371.97	118.66	31.90
Potatoes.....	94.74	18.60	19.64	9,947.63	1,953.25	19.64
Garlic.....	5.85	1.81	30.88	837.14	268.63	32.09
Taro/'Godere'.....	2,945.25	154.54	5.25	235,620.32	12,363.12	5.25
Sweet potatoes.....	242.79	30.17	12.43	24,278.77	3,016.80	12.43

Table 8.18- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Basketo Special Wereda

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	2,582.78	169.71	6.57	50,659.52	3,182.58	6.28
Cereals	2,182.73	160.50	7.35	25,880.51	1,982.16	7.66
Teff.	943.09	149.05	15.80	8,859.28	1,693.67	19.12
Barley.....	260.25	45.18	17.36	2,359.04	499.15	21.16
Wheat.....	*	*	*	*	*	*
Maize.....	527.91	59.81	11.33	8,830.52	1,058.13	11.98
Sorghum.....	447.48	40.07	8.95	5,820.54	664.68	11.42
Finger millet.....	-	-	-	-	-	-
Oats/'Aja'.....	*	*	*	-	-	-
Rice.....	-	-	-	-	-	-
Pulses.....	154.10	15.79	10.25	1,055.07	135.56	12.85
Horse beans.....	11.74	2.94	25.04	44.58	12.11	27.17
Field peas.....	81.14	11.07	13.65	613.37	107.29	17.49
Haricot beans.....	57.75	11.40	19.73	397.11	83.05	20.91
Chick-peas.....	*	*	*	-	-	-
Lentils.....	-	-	-	-	-	-
Vetch.....	-	-	-	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	*	*	*	-	-	-
Gibto.....	-	-	-	-	-	-
Oilseeds.....	4.79	1.82	37.90	32.35	13.93	43.08
Neug.....	-	-	-	-	-	-
Linseed.....	*	*	*	*	*	*
Groundnuts.....	*	*	*	*	*	*
Sufflower.....	*	*	*	*	*	*
Sesame.....	-	-	-	-	-	-
Rapeseed.....	*	*	*	-	-	-
Vegetables.....	6.09	1.70	27.93	608.68	170.01	27.93
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	6.02	1.70	28.28	601.80	170.22	28.28
Tomatoes.....	-	-	-	-	-	-
Green peppers.....	*	*	*	*	*	*
Red peppers.....	-	-	-	-	-	-
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	235.07	24.24	10.31	23,082.91	2,389.17	10.35
Beetroot.....	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-
Onion.....	*	*	*	*	*	*
Potatoes.....	49.25	8.21	16.68	5,171.39	862.38	16.68
Garlic.....	*	*	*	*	*	*
Taro/'Godere'.....	37.34	5.41	14.50	2,986.95	433.11	14.50
Sweet potatoes.....	146.30	18.21	12.45	14,630.49	1,821.36	12.45

Table 8.19- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

(S.N.N.P.R) Region
Konta Special Wereda

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	7,963.44	811.78	10.19	160,729.00	13,465.16	8.38
Cereals	5,122.48	569.64	11.12	55,989.22	8,508.79	15.20
Teff.	2,355.85	313.30	13.30	17,952.39	2,473.50	13.78
Barley.....	956.06	408.23	42.70	13,425.17	6,599.06	49.15
Wheat	251.91	85.50	33.94	3,032.57	1,265.31	41.72
Maize	499.68	155.06	31.03	9,013.67	3,487.61	38.69
Sorghum.....	1,031.24	147.55	14.31	12,275.13	1,965.15	16.01
Finger millet.....	-	-	-	-	-	-
Oats/'Aja'.....	*	*	*	*	*	*
Rice.....	-	-	-	-	-	-
Pulses.	1,763.80	345.96	19.61	18,643.50	4,671.99	25.06
Horse beans.....	1,195.18	286.54	23.98	13,824.08	4,024.78	29.11
Field peas.....	349.25	97.46	27.91	3,193.59	921.48	28.85
Haricot beans.....	217.42	43.46	19.99	1,625.07	385.17	23.70
Chick-peas.....	*	*	*	*	*	*
Lentils.....	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds.....	7.00	3.06	43.69	15.02	7.22	48.06
Neug.	*	*	*	-	-	-
Linseed.....	6.73	2.98	44.25	15.02	7.22	48.06
Groundnuts.....	-	-	-	-	-	-
Sufflower.....	-	-	-	-	-	-
Sesame.....	*	*	*	-	-	-
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	8.63	1.68	19.41	766.47	169.55	22.12
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	2.70	.74	27.27	269.88	73.60	27.27
Tomatoes.....	-	-	-	-	-	-
Green peppers.....	4.92	1.63	33.18	491.51	163.06	33.18
Red peppers.....	1.02	.47	46.42	5.08	2.36	46.42
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	1,061.53	99.00	9.33	85,314.79	7,942.07	9.31
Beetroot.....	-	-	-	-	-	-
Carrot.....	*	*	*	-	-	-
Onion	-	-	-	-	-	-
Potatoes.....	14.62	7.01	47.91	1,535.44	735.67	47.91
Garlic.....	*	*	*	*	*	*
Taro/'Godere'.....	1,044.34	98.17	9.40	83,547.36	7,853.56	9.40
Sweet potatoes.....	1.83	.74	40.15	183.22	73.57	40.15

Table 9- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Gambella Region

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	8,724.84	411.96	4.72	178,765.64	10,229.96	5.72
Cereals	7,876.60	372.13	4.72	144,048.75	9,160.97	6.36
Teff.	4.67	2.26	48.51	*	*	*
Barley.....	9.41	2.95	31.30	21.21	8.91	42.02
Wheat	*	*	*	-	-	-
Maize	5,110.06	272.95	5.34	109,867.48	8,448.09	7.69
Sorghum.....	2,664.26	221.95	8.33	33,217.91	3,079.21	9.27
Finger millet.....	48.38	13.85	28.64	535.55	180.43	33.69
Oats/'Aja'.....	*	*	*	-	-	-
Rice.	38.57	11.76	30.49	384.60	113.83	29.60
Pulses.	116.47	25.34	21.75	706.26	246.96	34.97
Horse beans.....	*	*	*	*	*	*
Field peas.....	*	*	*	-	-	-
Haricot beans.....	112.31	25.08	22.33	704.26	246.90	35.06
Chick-peas.....	*	*	*	-	-	-
Lentils.....	*	*	*	-	-	-
Vetch	*	*	*	-	-	-
Soya beans.....	.09	.04	45.61	-	-	-
Fenugreek.....	*	*	*	-	-	-
Gibto	*	*	*	-	-	-
Oilseeds.....	344.68	81.27	23.58	988.42	228.03	23.07
Neug.	*	*	*	-	-	-
Linseed.....	*	*	*	-	-	-
Groundnuts.....	26.06	9.38	36.01	177.43	50.80	28.63
Sufflower.....	.73	.27	37.26	-	-	-
Sesame.....	314.63	82.48	26.21	806.57	232.27	28.80
Rapeseed.....	*	*	*	*	*	*
Vegetables.....	55.70	9.08	16.31	4,254.51	789.57	18.56
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	21.95	5.95	27.08	2,193.90	594.70	27.11
Tomatoes.....	7.97	2.99	37.50	1,179.85	448.91	38.05
Green peppers.....	4.85	1.22	25.19	481.53	122.18	25.37
Red peppers.....	20.06	5.93	29.59	301.05	125.63	41.73
Swiss chard.....	*	*	*	-	-	-
Root Crops.....	331.40	40.95	12.36	28,767.70	3,451.45	12.00
Beetroot.....	*	*	*	*	*	*
Carrot.....	*	*	*	-	-	-
Onion	*	*	*	*	*	*
Potatoes.....	*	*	*	*	*	*
Garlic.....	.67	.23	34.87	98.19	35.16	35.80
Taro/'Godere'.....	220.70	35.64	16.15	17,655.85	2,850.91	16.15
Sweet potatoes.....	108.20	16.56	15.31	10,819.93	1,656.38	15.31

Table 9.1- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Gambella Region
Zone 1

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	1,968.95	105.50	5.36	36,958.04	2,245.25	6.08
Cereals	1,845.61	101.20	5.48	30,282.28	1,685.00	5.56
Teff.....	.69	-	-	-	-	-
Barley.....	*	*	*	-	-	-
Wheat.....	-	-	-	-	-	-
Maize.....	1,715.58	97.37	5.68	28,424.92	1,620.97	5.70
Sorghum.....	127.08	34.37	27.04	1,857.37	541.33	29.15
Finger millet.....	-	-	-	-	-	-
Oats/'Aja'.....	*	*	*	-	-	-
Rice.....	*	*	*	-	-	-
Pulses.....	46.10	7.68	16.66	220.45	26.28	11.92
Horse beans.....	-	-	-	-	-	-
Field peas.....	-	-	-	-	-	-
Haricot beans.....	45.88	7.67	16.73	220.45	26.28	11.92
Chick-peas.....	*	*	*	-	-	-
Lentils.....	-	-	-	-	-	-
Vetch.....	.01	-	26.77	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	-	-	-	-	-	-
Gibto.....	*	*	*	-	-	-
Oilseeds.....	11.84	4.27	36.08	92.89	33.32	35.87
Neug.....	-	-	-	-	-	-
Linseed.....	*	*	*	-	-	-
Groundnuts.....	3.61	1.66	45.91	37.15	14.44	38.86
Sufflower.....	*	*	*	-	-	-
Sesame.....	*	*	*	*	*	*
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	*	*	*	*	*	*
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage....	.34	.14	41.49	34.11	14.15	41.49
Tomatoes.....	*	*	*	*	*	*
Green peppers.....	*	*	*	*	*	*
Red peppers.....	*	*	*	-	-	-
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	61.21	11.89	19.43	5,767.47	1,182.11	20.50
Beetroot.....	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-
Onion.....	-	-	-	-	-	-
Potatoes.....	.08	.02	24.42	-	-	-
Garlic.....	-	-	-	-	-	-
Taro/'Godere'.....	17.27	1.92	11.10	1,381.99	153.47	11.10
Sweet potatoes.....	43.85	11.67	26.62	4,385.48	1,167.45	26.62

Table 9.2- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Gambella Region
Zone 2

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	6,755.89	398.22	5.89	141,807.61	9,980.53	7.04
Cereals	6,030.99	358.10	5.94	113,766.47	9,004.67	7.92
Teff.	*	*	*	*	*	*
Barley.....	8.02	2.77	34.56	21.21	8.91	42.02
Wheat	*	*	*	-	-	-
Maize	3,394.48	254.99	7.51	81,442.56	8,291.12	10.18
Sorghum.....	2,537.18	219.27	8.64	31,360.54	3,031.25	9.67
Finger millet.....	48.38	13.85	28.64	535.55	180.43	33.69
Oats/'Aja'.....	*	*	*	-	-	-
Rice.	38.40	11.76	30.62	384.60	113.83	29.60
Pulses.	70.37	24.15	34.31	*	*	*
Horse beans.....	*	*	*	*	*	*
Field peas.....	*	*	*	-	-	-
Haricot beans.....	66.43	23.88	35.95	*	*	*
Chick-peas.....	*	*	*	-	-	-
Lentils.....	*	*	*	-	-	-
Vetch	*	*	*	-	-	-
Soya beans.....	*	*	*	-	-	-
Fenugreek.....	*	*	*	-	-	-
Gibto	*	*	*	-	-	-
Oilseeds.....	332.84	81.15	24.38	895.53	225.59	25.19
Neug.	*	*	*	-	-	-
Linseed.....	*	*	*	-	-	-
Groundnuts.....	22.45	9.24	41.14	140.28	48.70	34.72
Sufflower.....	.68	.27	39.59	-	-	-
Sesame.....	308.10	82.39	26.74	750.83	230.25	30.67
Rapeseed.....	*	*	*	*	*	*
Vegetables.....	51.50	8.80	17.09	3,659.57	720.77	19.70
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	*	*	*	*	*	*
Ethiopian Cabbage....	21.61	5.94	27.50	2,159.80	594.53	27.53
Tomatoes.....	4.42	2.21	49.88	*	*	*
Green peppers.....	4.56	1.21	26.56	453.22	121.30	26.76
Red peppers.....	20.04	5.93	29.61	301.05	125.63	41.73
Swiss chard.....	*	*	*	-	-	-
Root Crops.....	270.18	39.18	14.50	23,000.23	3,242.71	14.10
Beetroot.....	*	*	*	*	*	*
Carrot.....	*	*	*	-	-	-
Onion	*	*	*	*	*	*
Potatoes.....	*	*	*	*	*	*
Garlic.....	.67	.23	34.87	98.19	35.16	35.80
Taro/'Godere'.....	203.42	35.58	17.49	16,273.85	2,846.78	17.49
Sweet potatoes.....	64.34	11.75	18.26	6,434.45	1,175.01	18.26

Table 10- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Harari Region

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	5,987.84	578.47	9.66	63,592.36	7,402.82	11.64
Cereals	4,624.92	378.85	8.19	43,859.47	5,301.17	12.09
Teff.	*	*	*	*	*	*
Barley.....	18.04	8.85	49.02	*	*	*
Wheat	99.94	34.13	34.15	549.11	195.90	35.68
Maize	667.56	78.14	11.70	8,267.40	1,202.27	14.54
Sorghum.....	3,834.52	352.80	9.20	34,892.12	4,752.25	13.62
Finger millet.....	*	*	*	-	-	-
Oats/'Aja'.....	*	*	*	*	*	*
Rice.....	-	-	-	-	-	-
Pulses.....	25.69	6.59	25.63	130.21	38.41	29.50
Horse beans.....	*	*	*	*	*	*
Field peas.....	*	*	*	*	*	*
Haricot beans.....	10.62	3.62	34.10	55.60	18.97	34.12
Chick-peas.....	*	*	*	*	*	*
Lentils.....	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	*	*	*	*	*	*
Gibto	-	-	-	-	-	-
Oilseeds.....	1,249.01	292.92	23.45	12,073.66	2,975.61	24.65
Neug.	-	-	-	-	-	-
Linseed.....	-	-	-	-	-	-
Groundnuts.....	1,239.61	291.63	23.53	11,983.49	2,953.13	24.64
Sufflower.....	-	-	-	-	-	-
Sesame.....	*	*	*	*	*	*
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	*	*	*	*	*	*
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	*	*	*	-	-	-
Ethiopian Cabbage....	-	-	-	-	-	-
Tomatoes.....	-	-	-	-	-	-
Green peppers.....	*	*	*	*	*	*
Red peppers.....	*	*	*	-	-	-
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	87.81	23.78	27.08	7,510.22	2,221.49	29.58
Beetroot.....	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-
Onion	-	-	-	-	-	-
Potatoes.....	*	*	*	*	*	*
Garlic.....	-	-	-	-	-	-
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	61.10	16.03	26.23	4,705.86	1,120.71	23.82

Table 11- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Addis Ababa Administration

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	21,155.18	7,390.88	34.94	228,668.41	66,753.07	29.19
Cereals	16,077.97	5,582.66	34.72	163,765.09	50,080.37	30.58
Teff.	7,982.95	2,217.51	27.78	69,957.24	18,387.92	26.28
Barley.....	148.28	46.88	31.61	1,052.02	321.33	30.54
Wheat	7,864.34	3,478.39	44.23	92,449.44	32,106.06	34.73
Maize	47.39	12.80	27.00	46.18	7.75	16.77
Sorghum.....	26.51	7.15	26.96	195.91	55.34	28.25
Finger millet.....	*	*	*	*	*	*
Oats/'Aja'.....	*	*	*	*	*	*
Rice.....	-	-	-	-	-	-
Pulses.	4,888.55	1,791.34	36.64	43,676.78	12,689.04	29.05
Horse beans.....	230.59	57.70	25.02	1,272.51	330.29	25.96
Field peas.....	53.54	15.32	28.60	228.18	72.65	31.84
Haricot beans.....	1.39	.63	45.03	2.03	.83	40.94
Chick-peas.....	2,544.09	974.93	38.32	25,715.48	8,225.14	31.99
Lentils.....	*	*	*	*	*	*
Vetch	1,295.38	385.83	29.78	12,410.53	2,866.59	23.10
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	204.71	78.66	38.43	756.06	284.31	37.60
Gibto.....	-	-	-	-	-	-
Oilseeds.....	14.06	5.82	41.37	*	*	*
Neug.	*	*	*	-	-	-
Linseed.....	11.54	5.62	48.72	*	*	*
Groundnuts.....	-	-	-	-	-	-
Sufflower.....	*	*	*	-	-	-
Sesame.....	-	-	-	-	-	-
Rapeseed.....	.71	.24	34.00	2.35	1.07	45.48
Vegetables.....	18.03	5.32	29.49	1,810.84	540.89	29.87
Lettuce.....	.21	.10	45.48	*	*	*
Head Cabbage.....	2.70	1.11	40.98	324.04	132.80	40.98
Ethiopian Cabbage....	13.61	4.99	36.70	1,360.52	499.25	36.70
Tomatoes.....	*	*	*	-	-	-
Green peppers.....	.78	.37	47.35	*	*	*
Red peppers.....	-	-	-	-	-	-
Swiss chard.....	.46	.17	37.12	51.29	20.39	39.75
Root Crops.....	156.57	54.63	34.89	19,394.05	6,734.35	34.72
Beetroot.....	4.32	1.57	36.41	561.05	204.26	36.41
Carrot.....	136.13	52.41	38.50	16,608.38	6,394.02	38.50
Onion	1.99	.48	24.08	261.92	64.54	24.64
Potatoes.....	2.01	.77	38.47	197.75	80.50	40.71
Garlic.....	12.07	4.47	36.99	1,762.45	676.79	38.40
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	.05	.02	45.23	*	*	*

Table 12- Estimates of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops 2001/02 (1994 E.C.)

Dire Dawa Administration

Crop	Area			Production		
	Hectares	S.E.	C.V	Quintals	S.E.	C.V.
TOTAL	6,778.91	624.35	9.21	104,890.23	9,317.01	8.88
Cereals	6,425.90	599.85	9.33	89,096.81	8,469.25	9.51
Teff.	-	-	-	-	-	-
Barley.....	*	*	*	*	*	*
Wheat	*	*	*	*	*	*
Maize	257.46	56.17	21.82	3,299.87	1,072.76	32.51
Sorghum.....	6,160.24	599.80	9.74	85,749.42	8,533.65	9.95
Finger millet.....	*	*	*	*	*	*
Oats/'Aja'.....	*	*	*	*	*	*
Rice.	-	-	-	-	-	-
Pulses.	203.63	60.09	29.51	2,139.11	691.44	32.32
Horse beans.....	-	-	-	-	-	-
Field peas.....	-	-	-	-	-	-
Haricot beans.....	201.21	60.30	29.97	2,126.76	692.50	32.56
Chick-peas.....	-	-	-	-	-	-
Lentils.....	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans.....	-	-	-	-	-	-
Fenugreek.....	*	*	*	*	*	*
Gibto	-	-	-	-	-	-
Oilseeds.....	34.36	13.79	40.14	224.13	99.99	44.61
Neug.	-	-	-	-	-	-
Linseed.....	-	-	-	-	-	-
Groundnuts.....	24.57	11.54	46.98	*	*	*
Sufflower.....	-	-	-	-	-	-
Sesame.....	*	*	*	*	*	*
Rapeseed.....	-	-	-	-	-	-
Vegetables.....	29.57	9.93	33.57	4,398.22	1,485.81	33.78
Lettuce.....	-	-	-	-	-	-
Head Cabbage.....	-	-	-	-	-	-
Ethiopian Cabbage.....	-	-	-	-	-	-
Tomatoes.....	29.32	9.91	33.78	4,398.22	1,485.81	33.78
Green peppers.....	*	*	*	-	-	-
Red peppers.....	-	-	-	-	-	-
Swiss chard.....	-	-	-	-	-	-
Root Crops.....	85.44	22.97	26.88	9,031.96	2,528.54	28.00
Beetroot.....	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-
Onion	*	*	*	*	*	*
Potatoes.....	*	*	*	*	*	*
Garlic.....	*	*	*	-	-	-
Taro/'Godere'.....	-	-	-	-	-	-
Sweet potatoes.....	64.44	17.70	27.46	6,443.74	1,769.62	27.46

APPENDIX 3:
Number of EAs and Agricultural Households Sampled and Covered by Zone

ZONE	Eas		HOUSEHOLDS	
	SAMPLED	COVERED	SAMPLED	COVERED
WESTERN TIGRAY	225	22	6750	6717
CENTRAL TIGRAY	250	25	7500	7498
EASTERN TIGRAY	175	17	5250	5247
SOUTHERN TIGRAY	200	20	6000	5998
TIGRAY TOTAL	850	84	25500	25460
AFAR ZONE 1	48	4	1440	1292
AFAR ZONE 3	46	4	1380	1338
AFAR TOTAL	94	9	2820	2630
NORTH GONDER	375	36	11250	11051
SOUTH GONDER	225	22	6750	6705
NORTH WELLO	200	20	6000	5998
SOUTH WELLO	375	37	11250	11179
NORTH SHEWA	475	47	14250	14109
EAST GOJAM	325	32	9750	9626
WEST GOJAM	250	24	7500	7407
WAG_HEMIRA	75	7	2250	2249
AWI	125	12	3750	3747
OROMIA ZONE	100	9	3000	2966
AMHARA TOTAL	2525	250	75750	75037
WEST WELLEGA	500	49	15000	14956
EAST WELLEGA	470	47	14100	14081
ILLUBABOR	323	32	9690	9643
JIMMA	325	32	9750	9741
WEST SHEWA	575	57	17250	17235
NORTH SHEWA	300	30	9000	8990
EAST SHEWA	300	30	9000	8990
ARSI	500	49	15000	14921
WEST HARERGHE	275	27	8250	8172
EAST HARERGHE	375	37	11250	11120
BALE	450	44	13500	13312
BORENA	294	29	8820	8731
OROMIA TOTAL	4687	467	140610	139892
SHINILE	22	1	660	566
JIJIGA	75	7	2250	2223
LIBEN	73	7	2190	2000
LIBEN	170	16	5100	4789

ZONE	Eas		HOUSEHOLDS	
	SAMPLED	COVERED	SAMPLED	COVERED
METEKEL	175	17	5250	5199
ASOSA	166	16	4980	4954
KEMSHI	95	8	2850	2567
BENISHANGUL-GUMUZ TOTAL	436	42	13080	12720
GURAGHE	350	34	10500	10392
HADIYA	100	10	3000	2998
KEMBATA ALABA TEMBARO	125	12	3750	3623
SIDAMO	225	22	6750	6700
GEDEO	100	10	3000	2995
WOLAYITA	175	17	5250	5225
SOUTH OMO	125	11	3750	3376
SHAKA	71	7	2130	2129
KAFA	250	25	7500	7470
GAMU GOFA	325	32	9750	9676
BENCHI-MAJI	158	15	4740	4665
YEM SP. WEREDA	25	2	750	750
AMARO SP. WEREDA	25	2	750	750
BURJI SP. WEREDA	25	2	750	750
KONSO SP. WEREDA	25	2	750	748
DERASHE SP. WEREDA	25	2	750	748
DAWRO	125	12	3750	3712
BASKETO SP. WEREDA	25	2	750	719
KONTA SP. WEREDA	25	2	750	749
SNNPR TOTAL	2304	227	69120	68175
GAMBELLA ZONE 1	65	6	1950	1748
GAMBELLA ZONE 2	76	6	2280	1804
GAMBELLA TOTAL	141	12	4230	4492
HARARI	25	2	750	738
ADDIS ABABA	35	3	1050	1050
DIRE DAWA	25	2	750	749
COUNTRY TOTAL	11292	1118	338760	334792

RURAL

Ethiopian Agricultural Sample Enumeration
List of Fields Under Mixed Crops and their Agricultural Practices
(Mehere Season) - 2001/02 (1994 E.C.)

Form EASE -R -94/3B

Part I- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmers' Association	Enumeration Areas	Household Number	Holder Number	Name	Age	Sex	Type of Holding
									male → 1 female → 2	Crop → 1 Livestock → 2 Both → 3

Part II - Area Under Mixed Crops and Agricultural Practice

1	2	3			4		
		Parcel No.	Field No.		Parcel No.	Field No.	
	Questions	Crop Name	Crop Name	Crop Name	Crop Name	Crop Name	Crop Name
		code	code	code	code	code	code
0	1 Type of Holding Private → 1 Others → 3 Rented/contract → 2						
0	2 Total mixed crop area in local unit	Name of Local Unit	code	Area	Name of Local Unit	code	Area
0	3 Was the field been included in the extention pakage program Yes → 1 No → 2						
0	4 Area in percentag share for Each crop						
0	5 Number of trees for permanent Crop	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
0	6 Number of trees of fruit of permanent crop	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
0	7 was the field irrigated yes → 1 No → 2						
0	8 Variety of seeds used Improved → 1 Indiginous → 2						
	If indiginous seed was used what was the quantity	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram
	If improved seed was used, what was the quantity	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram
1	1 If improved seed was used what was the cost/price	Birr sent	Birr sent	Birr sent	Birr sent	Birr sent	Birr sent
1	2 was the crop Damaged Yes → 1 No → 2						
1	3 If, yes, what was the major cause of Damage	Reason Code	Reason Code	Reason Code	Reason Code	Reason Code	Reason Code
1	4 percentage of Damage						
1	5 Any control/ preventive measure Taken for crop damage → 1 → 2						
1	6 If yes, what type of measure Chemical → 1 Non-chemical → 2 Both → 3						
1	7 If chemical insecticide insecticide → 1 1&3 → 5 Herbicide → 2 2&3 → 6 Fungicide → 3 All → 7 1&2 → 4						
1	8 Was the field fertilized yes → 1 No → 2						
1	9 If fertilized what type? Natural → 1 Chemical → 2 Both → 3						
2	0 One main Reson for not using Chemical fertilizer	Reason	Code	Reason	Code	Reason	Code
2	1 If chemical fertilizer used 21.1 Type Urea → 1 Dap → 2 Both → 3 21.2 መጠን በክ.ሳ. ግራም Quantity in kg.			Kg. Gram			Kg. Gram
2	2 If natural fertilizer used mainly what type Manure → 1 Compost → 2 Others → 4 Both → 3						
	/ If others specify/						

Rural

FORM EASE-R-94/5

Ethiopian Agricultural Sample Enumeration Area under Crop Fields and Other Land Uses (1994 E.C.)

Part 1: Identification Particular

1	2	3	4	5	6	7	8
Kilil	Zone	Wereda	FA	EA	Household ID NO	Holder ID.No.	Name of Holder

9	10	11	12	13	14	15	16	
Parcel No.	Field No.	Field Under Temp/Veg/Root Crops → 1	SR. No.	Name of Crop Type of Land use	If in col.11 code 1,2 or 3 Quantity of prod. In Local unit			If mixed Preparation Of Area under Each crop
		Permanent → 2			Identification particulars			
		Mixed → 3			code	Name	Code	Quantity
		Other land use → 4						
		code						
			1					
			2					
			3					

Part II. Area Measurement Result

1	2	3	4	5
Date of measurement	Area in Sq.m.	Area in Local Units		Reason if area Measurement not conducted
Date Month		Name of Local Area Unit	code		Area
				Code

Part III. Bearing and Distances of the Measured Area

Side ID	A-B	B-C	C-	D-	E-	F-	G-
Bearing							
Distance of							
Side ID	H-	I-	J-	K-	L-	M-	N-
Bearing							
Distances of							
Side ID	O-	P-	Q-	R-	S-	T-	U-
Bearing							
Distance of							

