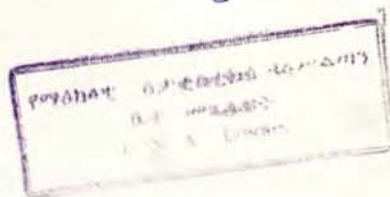


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THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA

CENTRAL STATISTICAL AUTHORITY

AGRICULTURAL SAMPLE SURVEY
1999/2000 (1992 E.C.)

REPORT ON

FARM MANAGEMENT PRACTICES
OF BELG SEASON CROPS

FOR
1999/2000 (1992 E.C.)

(Private Peasant Holdings)

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ABBREVIATIONS

CSA	-	CENTRAL STATISTICAL AUTHORITY
EC	-	ETHIOPIAN CALENDAR
CV	-	COEFFICIENT OF VARIATION
SE	-	STANDARD ERROR
HA	-	HECTARE
QT	-	QUINTAL
SNNPR	-	SOUTHERN NATION, NATIONALITIES AND PEOPLES REGION

PART I

INTRODUCTION AND OBJECTIVE OF THE SURVEY

1. INTRODUCTION

Agriculture is the backbone of the Ethiopian economy. The country's economic development highly depends on the development of the agricultural sector. Farmers' interest in the adoption and acceptance of new innovations, modern agricultural techniques and technologies, such as use of fertilizers, irrigation, improved seeds and pesticides, do have influencing impact on the development of the agricultural sector as a whole.

The extent of adopting modern agricultural practices, such as utilization of fertilizer, irrigation, pesticides and improved seeds, by the traditional peasant farmers can be considered as important indicators for estimating the rate of adoption of modern technologies.

This report presents quantitative information about the use of modern agricultural inputs for Belg season crops of 1999/2000(1992 E.C.) of the private peasant holdings for the country and regions as it was obtained from the results of the Belg agricultural sample survey conducted in May 2000 by the Central Statistical Authority (CSA). The report is subdivided into three sections;

Section 1. deals with estimates of total area under different farm management practices, total area under fertilizer application by type of fertilizer and quantity of commercial fertilizer in 1999/2000(1992 E.C.) Belg season.

Section 2. deals with estimates of total area under Belg season crops and the distribution of area under different farm management practices by area size groups in 1999/2000 (1992 E.C.) Belg season.

Section 3. deals with estimates of total number of Belg crop producing holders reporting the use of improved farm management practices by age in 1999/2000 (1992 E.C.) Belg season.

2. OBJECTIVE OF THE SURVEY

The general objective of the survey is to collect basic quantitative information on Ethiopia's agriculture. This information is essential for development planning and socio-economic policy formulation.

In a micro-perspective, the objectives of this Survey are to estimate the total cultivated land; total production and yield per hectare of major crops for both the Meher and Belg Seasons. Data on area under different land uses; and quantity of agricultural inputs by type for both seasons is also collected. From the sample, the number of livestock and poultry by type, purpose, sex and age; and, number of beehives in the private peasant holdings are estimated at the national, regional and zonal levels.

PART II

SURVEY METHODOLOGY, DATA COLLECTION AND PROCESSING

1. SCOPE COVERAGE AND CONTENT OF THE SURVEY

The 1999/2000 (1992 E.C.) annual Agricultural Sample Survey covers only sedentary rural agricultural population in all regions of the country. A total of 56 zones and 415 Weredas were covered in the survey. The areal coverage of the survey is given in page 5.

A total of 1,450 enumeration areas were selected to be covered in the survey in all regions. However, during the data collection stage the survey succeeded to cover only 1,445 enumeration areas (EAs) for Belg Season Survey. In each EA a sample of 40 agricultural households were selected where only the first 25 sample agricultural households were used for obtaining information on farm management practices.

2. SAMPLE DESIGN

A two-stage stratified sample design is used for the 1999/2000 (1992 E.C.) Annual Agricultural Sample Survey. All regions except Harari, Addis Ababa, Dire Dawa and Gambella are broken into zones and treated as strata/reporting levels for survey summarization purposes, but for the four mentioned regions, the reporting levels are the regions themselves. The sample design first-stage consists of primary sampling units (PSUs) in all strata which are enumeration areas (EAs). The second-stage sampling units are agricultural households selected as the secondary level sampling units. The survey questionnaires are administered to all

agricultural holders in the sampled agricultural households.

Based on cost and field enumeration considerations, a fixed number of sample EAs were allocated to each stratum / reporting level taking into consideration the desired precision of the estimates and number of households per stratum. The overall sample number of EAs in a stratum was proportionately allocated to zones/special weredas within stratum based on their number of households. From within each Zone/Special Wereda sample EAs were selected with probability proportional to size, size being the total number of households identified for EAs as obtained from the 1994 Population Census. From each sample EA, 40 agricultural households were sampled systematically without replacement from a newly enumerated list of agricultural households.

Information was collected from the first twenty-five agricultural households except for crop-cutting data which is collected from only the last 15 agricultural households, starting from the 11th selected agricultural households. Data is collected on separate questionnaires from each holder within these twenty-five sampled agricultural households.

The estimation formulation procedures for totals and ratios of the agricultural variables estimated and the measure of their precision are presented in the **Appendix I**.

AREAL COVERAGE OF THE 1999/2000 (1992 E.C.)

AGRICULTURAL SAMPLE SURVEY

REGION	NUMBER OF ZONES		NUMBER OF WEREDAS
	Total	COVERED IN THE SURVEY	COVERED IN THE SURVEY
TIGRAY ¹	5	4	33
AFAR ²	5	3	8
AMHARA	11	10	92
OROMIA	12	12	170
SOMALIE ³	9	3	9
BENISHANGUL-GUMUZ	3	3	18
S.N.N.P.R	14	14	73
GAMBELA	4	3	5
HARARI	1	1	1
ADDIS ABABA ⁴	6	2	5
DIRE DAWA	1	1	1
TOTAL	71	56	415

Notes

1. In Tigray Region, four out of five zones have rural settled population. The remaining one zone the entire population is urban resident.
2. Afar Region has a total of five zones, however only three zones have significant rural sedentary population.
3. Somalie Region has a total of nine zones, however only three zones have significant rural sedentary population.
4. Addis Ababa has a total of six zones, however, only two zones have rural settled population. In the remaining four zones the entire population is urban resident.

3. FIELD ORGANIZATION

The Central Statistical Authority, Branch Statistical Office heads, field supervisors and enumerators, other support staff and drivers were all involved in the conduct of the AgSS area and production survey data collection effort. To accomplish the data collection all field enumerators were equipped with the necessary survey equipment i.e. compass, protractor, ruler, measuring tape, balance scale, poles, ropes, sample bags,...etc.) at the completion of training. To assist with the field work and data collection activities all available four-wheel drive vehicles were used for supervision and collection of completed questionnaires.

4. TRAINING OF FIELD STAFF

The field staff training program was carried out in two stages. The first-stage consisted of trainees from the head office, Branch Statistical Office heads and some of the field supervisors being given training for one week at CSA's headquarters complex in Addis Ababa.

Many of those trained in the first-stage conducted similar training for field supervisors and enumerators for 10 days in all of CSA's 22 branch offices which are distributed around the country. During this second-stage training, the field staff were given detailed classroom instruction on the objectives and uses of the AgSS, concepts and definitions of terms used, the method of area measurement, method of crop cutting, as well as correct interviewing procedures,... etc. The enumerator training also included a field practice to reinforce the concepts discussed in the classroom with regard to field measurement and crop cutting data collection.

5. METHOD OF DATA COLLECTION

The information on agricultural practices (use of fertilizer, use of pesticides, use of improved seeds and use of irrigation), area and production of major Belg season crops were collected subjectively by interviewing the holders in the sampled households.

There are two well known crop production seasons in Ethiopia Meher (Main) and Belg seasons. According to generally accepted definitions, Meher season refers to long rainy season, which normally occurs from June to September. While "Belg Season" refers to small rainy season, which normally occurs from February to May. In most cases during Belg period long maturing crops are planted and their harvest can extend to December or January. Most of the time, short maturing crops are planted during Belg period and are harvested in June or July.

However, due to the heterogeneity of Belg practices in different parts of the country and the overlapping nature of sowing time for some Meher season crops the reports on Belg season crops in the past faced problem of identification. Hence, in order to report the two seasons crops separately and also not to overlook or miss agricultural practices performed all the year round, either through irrigation, use of soil moisture from dried swampy or marshy areas the following definition has been adopted since 1987/88.

Belg season crops were defined as any crops that are harvested during the months of March to August, while those crops that are harvested during September to February are considered as main (Meher) season crops.

6. DATA PROCESSING

a. EDITING, CODING AND VERIFICATION.

To insure the quality of the collected survey data an editing, coding and verification instruction manual was written, and fifty-five editors, coders and verifiers were trained for two days to edit, code and verify the data using the forementioned manual as a reference and teaching aid.

The enumerator completed questionnaires were edited, coded and later verified by supervisors on a 100% basis before the questionnaires were sent to the data processing unit for data entry. The editing, coding and verification of all questionnaires was completed in twelve days.

b. DATA ENTRY, CLEANING AND TABULATION

Before starting data entry of the questionnaire data, experts in agricultural statistics prepared edit specifications for use on personal computers utilizing the Integrated Microcomputer Processing System (IMPS) software for data consistency checking purposes.

The data on the coded questionnaires were then entered into the IMPS software on personal computers. The data was then checked and cleaned using the edit specifications prepared earlier for this purpose. Forty data encoders were involved in this total process and it took seven days to complete the job. Finally, tabulation was done on personal computers to produce results as indicated in the tabulation plan.

7. BASIC CONCEPTS AND DEFINITIONS

The concepts and definitions used in the survey are defined as follows:

Enumeration Area (EA): An Enumeration Area in rural parts of the Country is a locality that is less than or equal to a farmer's association area and usually it consists of 150-200 households.

Households: A household may be either

- a) a one person household, that is a person who makes provision for his own food or other essentials for 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 provision for food or other essentials for living. The persons in the group may pool their incomes and have a common budget to greater or lesser extent. They may be related or unrelated persons, or a combination of both.

Holder: A holder is a person who exercises management control over the operations of the agricultural holding and takes the major decision regarding the utilization of the available resources. He has technical and economic responsibility for the holding. He may operate the holding directly as an owner or as a manager.

Under conditions of traditional agricultural holding the holder may be regarded as the person, who with or without help of others, operates land or raises livestock in his own right, i.e. the person who decides on what, when, where and how to grow crops

or raise livestock and has right to determine the utilization of the products.

Holding: A holding is all the land and livestock kept which is used wholly or partly for agricultural production and is operated as one technical unit by one person alone, or with others, without regard to title, legal form, size or location.

Area size groups: In this report area size group is determined by total area under major Belg season crops which is mainly land area under temporary crops.

Agricultural Households: A household is considered and agricultural household when at least one member of the household is engaged in growing crops and/or breeding and raising livestock in private or in partnership with others.

Parcel: A parcel of holding is any piece of land entirely surrounded by land, water road, forest,...etc. which is not part of the holding. It may consist one or more cadastral units, plots or field 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 crop.

Belg season crops: are defined as any crops that are harvested during the months of March(Megabit) to August(Nehase).

Meher season crops: crops that are harvested during the months of September (Meskerem) to February (Yekatit) are considered as main(Meher) season crops.

Irrigated area: refers to the area of land purposely and actually provided with water, other than by rain, for improving the production of crops. The uncontrolled flooding of land by the over flow of rivers or streams is not categorized as irrigation practice although sometimes farmers use this incidence for production.

Improved Seed: is defined as crop variety which gives significantly higher yield, better quality and/or better benefit compared to traditional varieties of seeds, and usually produced by the Ethiopian Seed Enterprise (ESE) in Ethiopia.

Fertilizer: refers to anything added to the soil intended to increase the amount of plant nutrients available for crop growth. Usually fertilizers are divided into two parts, Natural and Commercial. Examples of natural fertilizers are farmyard manure and wood ashes while commercial fertilizers are DAP (Di-Ammonium Phosphate) and UREA (Ammonium Nitrate).

Pesticides: Pesticides are chemicals useful for the mitigation, control or elimination of pests which are trouble some or harmful to crops. Insecticides, herbicides and fungicides are all considered as pesticides.

NOTE

1. If in some tables figures do not add up to total it is due to rounding.
2. Those estimates designated by "***" in all tables could not be reported because of high coefficient of variation (i.e. they are consolidated in total estimates.
3. In all tables "-" labeled for data not available and "0.00" indicates the value is insignificant.

PART III

SUMMARY OF THE RESULTS OF THE 1999/2000 (1992 E.C)

FARM MANAGEMENT PRACTICES OF BELG SEASON SURVEY

As mentioned earlier, the results of the 1999/2000 (1992 E.C.) agricultural sample survey on Belg season farm management practices are presented in three sections. In each section short descriptive analysis and tables with numerical results for the country and regional levels are presented.

According to 1999/2000(1992 E.C.) annual agricultural sample survey results, it was estimated that Belg season major crops covered 632.21 thousand hectares of land. In which 4637.49 thousand holders were engaged in the production activity. Of the total area under Belg season major crops 257.76 thousand hectares (40.77%) was under the use of improved farm management practices in which 1998.48(43.09%) thousand Belg crop producing holders reported to be involved in applying different agricultural inputs.

Moreover, in 1999/2000 (1992 E.C) it was estimated that a total of 76,680 quintals of commercial fertilizers was utilized for Belg season crop production. The details in each of the above mentioned variables are discussed in the following sub-sections.

SUMMARY TABLE A : SUMMARY OF THE SURVEY RESULTS

* Belg Crop Area ('000 ha)	632.21
* Number of Belg Crop Producing Holders(in million)	4.64
* Improved Farm Management Practices('000ha)	257.76
* Number of holders reporting the use of farm management practices(in million)	1.99
* Quantity of commercial fertilizer('000qt)	76.68

As indicated in tables of results, one can easily observe the relative good performance of the 1999/2000(1992 E.C.) Belg season farm management practice when compared to the previous year i.e 1998/99(1991 E.C.) Belg season farm management practice. For instance, the total crop area and applied quantity of fertilizer of major Belg season crops showed an increase of 26.39% and 11.11% when compared with that of 1998/99(1991 E.C.) Belg season farm management practice estimates, respectively. From this one can easily conclude that the performance of the 1999/2000(1992 E.C.) Belg season farm management practice was relatively better when compared to the previous year i.e. 1998/99(1991 E.C.).

TABLE 1: SUMMARY OF THE RESULTS

Year	Total Crop Area (ha)	Applied Quantity of Fertilizer (kg/ha)
1999/2000 (1992 E.C.)	1120	110
1998/99 (1991 E.C.)	880	100

SECTION 1.

1.1 TOTAL AREA UNDER DIFFERENT FARM MANAGEMENT PRACTICES

According to the 1999/2000 (1992 E. C.) agricultural sample survey results, it was estimated that Belg season major crops covered about 632.21 thousand hectares of land. Of this total 257.76 hectares (40.77% of the total) was under the use of improved farm management practices. Moreover, of the above mentioned total area under improved farm inputs, 207.47 thousand hectares (80.49%) was under fertilizer (both natural and commercial), 18.34 thousand hectares (7.12%) was under irrigation, 15.87 thousand hectares (6.16%) was treated with pesticides and 16.08 thousand hectares (6.24%) was under improved seeds. The coverage of the above mentioned farm management practices accounted for 32.82%, 2.90%, 2.51% and 2.54% of the total area under Belg season crops respectively (see summary Table B).

SUMMARY TABLE B: ESTIMATES OF TOTAL AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/2000 (1992 E.C.)

TYPE OF IMPROVED FARM MANAGEMENT PRACTICES	AREA UNDER IMPROVED FARM MANAGEMENT PRACTICE (000'ha)	% FROM TOTAL BELG FARM MANAGEMENT AREA	% FROM TOTAL BELG CROP AREA
IRRIGATION	18.34	7.12	2.90
IMPROVED SEEDS	16.08	6.24	2.54
FERTILIZER	207.47	80.49	32.82
PESTICIDES	15.87	6.16	2.51
TOTAL	257.76	100	40.77

The estimates of total land area under different farm management practices for Belg season crops of 1999/2000 (1992 E.C.) is presented in Summary Table C. As it is indicated in the

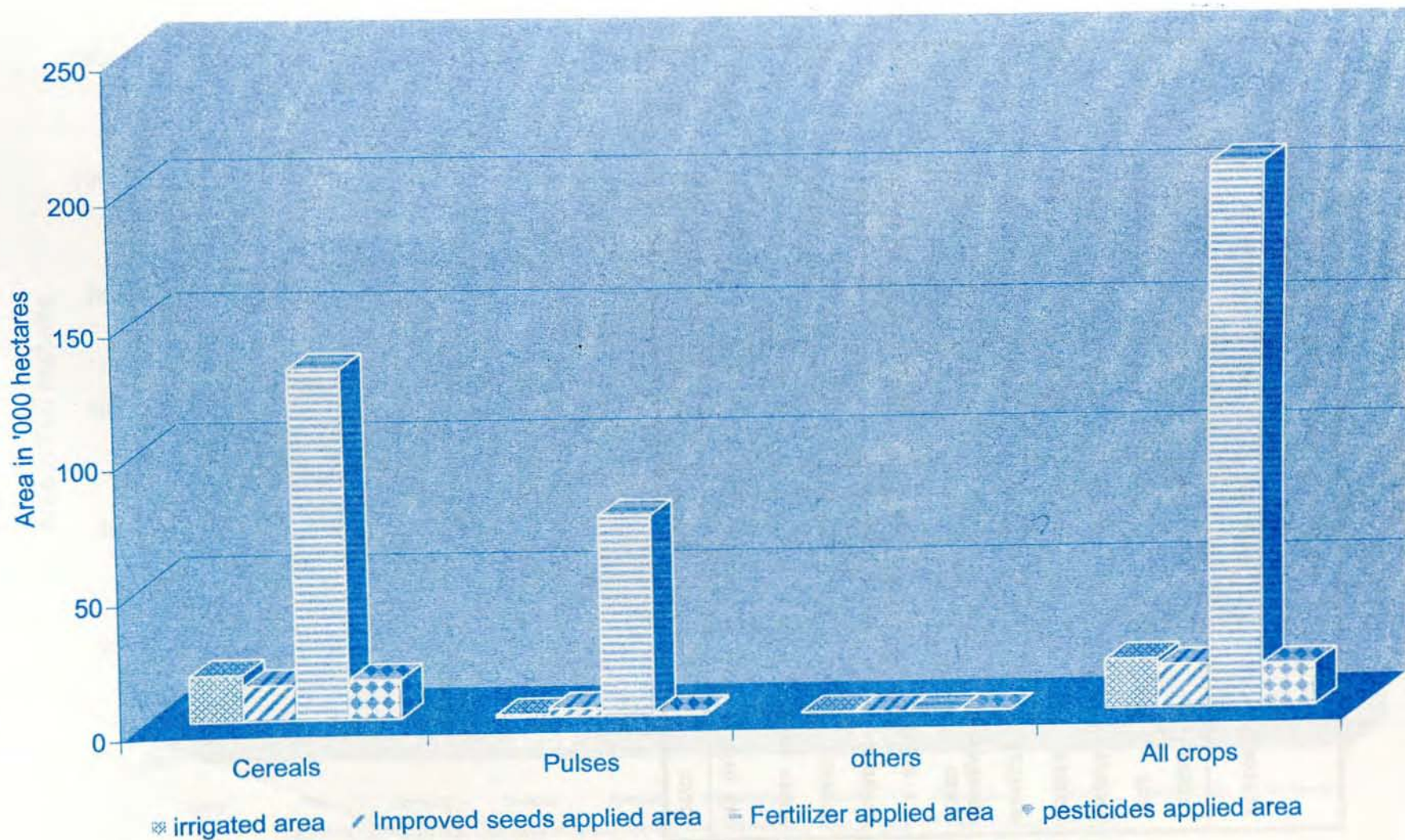
summary table, the highest proportion of crop area under different farm management practices was reported to be covered by Belg cereals, which accounted for 177.26 thousand hectares (68.77%). Furthermore, about 80.31 thousand hectares (31.16%) was accounted for Belg pulses and the remaining 0.19 thousands hectares(0.07%) was reported as Belg other crops.

SUMMARY TABLE C: ESTIMATES OF TOTAL AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/2000 (1992 E.C.)

CROP TYPE	TOTAL BELG CROP AREA		AREA UNDER IMPROVED FARM MANAGEMENT PRAC.	
	'000 HA	%	'000 HA	%
CEREALS	455.46	72.04	177.26	68.77
PULSES	174.63	27.62	80.31	31.16
OTHERS	2.12	0.34	0.19	0.07
TOTAL	632.21	100	257.76	100

In almost all Belg producing regions of the country, improved farm inputs were utilized for Belg crop production. As indicated in Summary Table D, the largest area under Belg season crops was reported by Oromiya Region, covering 55.23%(349,170 hectares). The second and third were S.N.N.P and Amhara regions with the coverage of 36.93% (233,440 hectares) and 5.85%(36,960 hectares), respectively. On the other hand Addis Ababa did not produce Belg Crops in this year.

Figure 1. Estimates of total area under improved farm management practices for Belg season crops by private holdings in Ethiopia, 1999/2000(1992 E.C.)



SUMMARY TABLE D: ESTIMATES OF TOTAL AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/2000 (1992 E.C.)

REGION	TOTAL BELG CROP AREA		AREA UNDER FARM MANAGEMENT PRACTICES	
	'000 HA	%	'000 HA	%
TIGRAY	.94	0.15	.99	1.29
AFAR	.01	0.00	0.00	0.00
AMHARA	36.96	5.85	9.83	3.82
OROMIA	349.17	55.23	134.99	52.38
SOMALIE	7.85	1.24	1.27	0.49
BENSHANGUL-GUMEZ	.70	0.11	0.14	0.05
S.N.N.P.R	233.44	36.93	109.98	42.68
GAMBELA	3.04	0.48	0.43	0.17
HARARI	0.04	0.01	0.03	0.01
ADDIS ABABA	-	-	-	-
DRE DAWA	0.05	0.01	0.05	0.02
TOTAL	632.21	100.00	257.76	100.00

Figure 2. Estimates of area under improved farm management practices for Belg season crops of private holdings in Ethiopia, 1999/2000 (1992 E.C.)

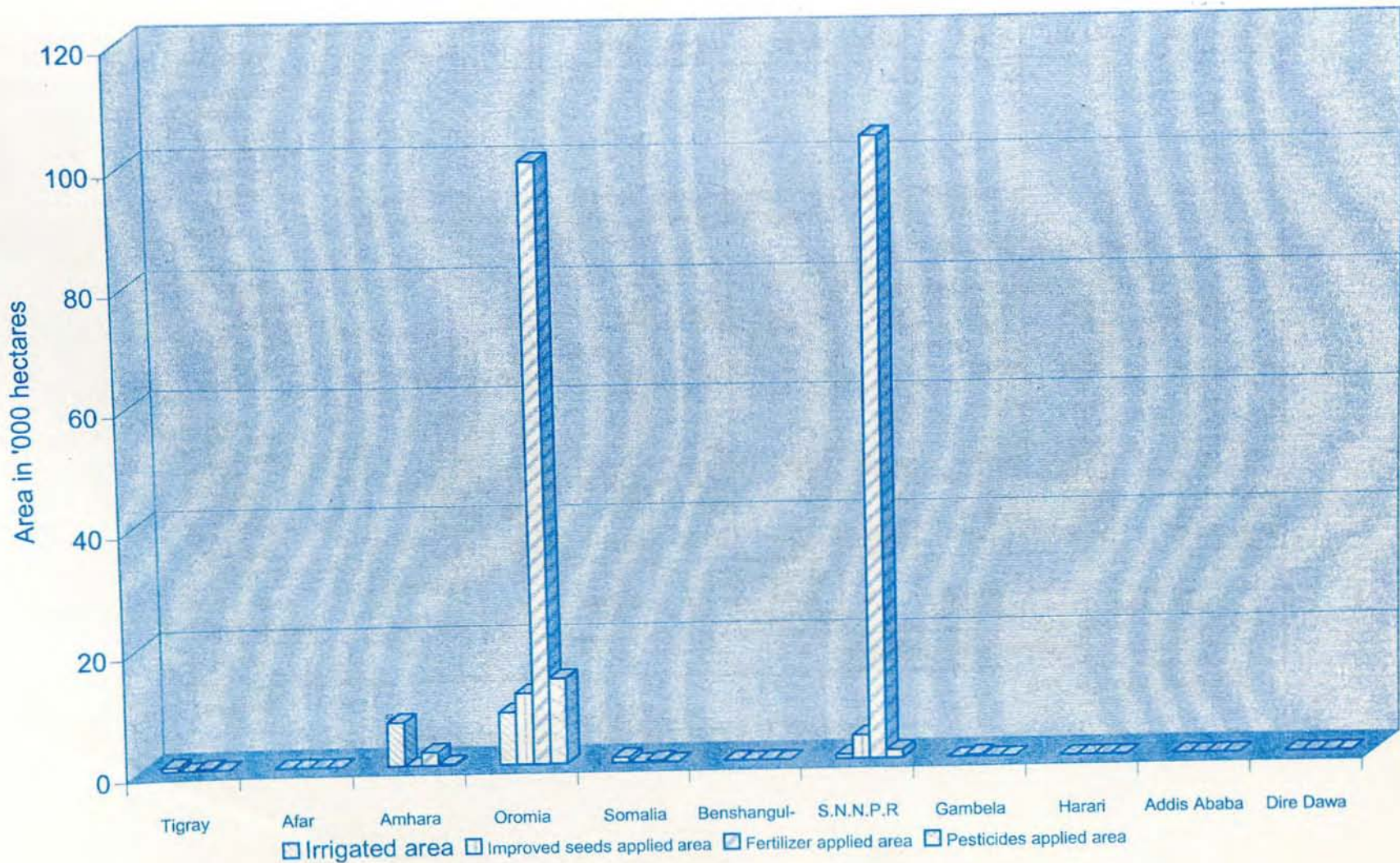


TABLE 1

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

National

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL BELG CROP AREA	%	AREA UNDER FARM MANAGEMENT PRACTICES							
			IRRIGATED	%	IMPROVED SEEDS APPLIED	%	FERTILIZER APPLIED	%	PESTICIDES APPLIED	%
CEREALS	455.46	72.04	17.26	94.16	13.14	81.72	132.11	63.68	14.76	92.95
Teff	17.84	2.82	*	*	*	*	2.83	1.36	1.50	9.45
Barley	172.80	27.33	1.55	8.46	.05	.31	59.44	28.65	7.78	48.99
Wheat	63.97	10.12	1.00	5.46	*	*	24.82	11.96	*	*
Maize	173.56	27.45	12.91	70.43	11.51	71.58	40.40	19.47	.58	3.65
Sorghum	14.82	2.34	.01	.05	*	*	2.15	1.04	-	-
Millet	*	*	-	-	-	-	*	*	-	-
Oats	11.57	1.83	*	*	-	-	2.36	1.14	*	*
PULSES	174.63	27.62	.90	4.91	*	*	75.35	36.32	1.12	7.05
Horse Beans	7.11	1.12	-	-	-	-	*	*	-	-
Field Peas	11.30	1.79	*	*	-	-	.27	.13	-	-
Haricot Beans	150.14	23.75	.27	1.47	*	*	73.65	35.50	1.12	7.05
Chick Peas	*	*	*	*	-	-	*	*	-	-
Lentils	*	*	*	*	-	-	*	*	-	-
Vetch	*	*	*	*	-	-	*	*	-	-
OTHERS	2.12	.34	*	*	-	-	*	*	-	-
Neug	*	*	-	-	-	-	-	-	-	-
LinSeed	*	*	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	-	-	*	*	-	-
ALL CROPS	632.21	100.00	18.33	100.00	16.08	100.00	207.46	100.00	15.88	100.00

TABLE 1.1

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY REGION FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

AREA (IN '000 HECTARES)

REGION	TOTAL BELG CROP AREA	%	AREA UNDER FARM MANAGEMENT PRACTICES								
			IRRIGATED	%	IMPROVED SEEDS APPLIED	%	FERTILIZER APPLIED	%	PESTICIDES APPLIED	%	
TIGRAY	0.93	0.15	*	*	-	-	*	-	-	-	-
AFAR	*	*	-	-	-	-	-	-	-	-	*
AMHARA	*	*	7.28	39.72	0.04	0.25	2.26	1.09	14.15	89.16	
OROMIYA	349.17	55.23	8.66	47.24	*	*	100.43	48.41	*	*	
SOMALIE	7.85	1.24	*	*	*	*	*	*	*	*	
BENSHANGUL-GUMUZ	0.70	0.11	*	*	-	-	0.05	0.02	1.35	8.51	
S.N.N.P.R	233.44	36.92	0.68	3.71	3.92	24.38	104.04	50.15	*	*	
GAMBELA	3.04	0.48	-	-	0.32	1.99	-	-	-	-	
HARARI	0.04	0.01	-	-	-	-	-	-	-	-	
ADDIS ABABA	-	-	-	-	-	-	0.03	0.01	-	-	
DIRE DAWA	0.05	0.01	0.03	0.16	-	-	0.03	0.01	-	-	
ALL CROPS	632.21	100.00	18.33	100.00	16.08	100.00	207.46	100.00	15.87	100.00	

TABLE 1.2

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR
 BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
 1999/00(1992 E.C.)

Tigray

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL BELG CROP AREA	%	AREA UNDER FARM MAGAGEMENT PRACTICES							
			IRRGATED	%	IMPRVOED SEEDS APPLIED	%	FERTILIZER APPLIED	%	PESTICIDES APPLIED	%
CEREALS	.93	100.00	*	*	-	-	*	*	-	-
Teff	*	*	-	-	-	-	-	-	-	-
Barley	*	*	*	*	-	-	-	-	-	-
Wheat	*	*	*	*	-	-	*	*	-	-
Maize	*	*	*	*	-	-	*	*	-	-
Sorghum	-	-	-	-	-	-	*	*	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.93	100.00	*	*	-	-	*	*	-	-

TABLE 1.3

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL BELG CROP AREA	%	AREA UNDER FARM MANAGEMENT PRACTICES									
			IRRIGATED	%	IMPROVED SEEDS APPLIED	%	FERTILIZER APPLIED	%	PESTICIDES APPLIED	%		
CEREALS												
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	*	*	*	*	*	*	*	*	*
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	*	*	*	*	*	*	*	*	*	*	*	*
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	*	*	*	*	*	*	*	*	*

TABLE 1.4

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Amhara

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL BELG CROP AREA	%	AREA UNDER FARM MAGAGEMENT PRACTICES							
			IRRGATED		IMPRPOVED SEEDS APPLIED		FERTILIZER APPLIED		PESTICIDES APPLIED	
				%		%		%		%
CEREALS	*	*	6.42	88.31	*	*	2.21	97.79	*	*
Teff	2.06	26.31	*	*	-	-	*	*	*	*
Barley	*	*	*	*	-	-	*	*	*	*
Wheat	1.06	10.21	.92	12.65	*	*	.77	34.07	-	-
Maize	3.07	27.01	2.74	37.69	-	-	*	*	*	*
Sorghum	*	*	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	.52	.82	*	*	-	-	.05	2.21	-	-
PULSES	.98	.91	*	*	-	-	*	*	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	*	*	*	*	-	-	-	-	-	-
Haricot Beans	*	*	*	*	-	-	-	-	-	-
Chick Peas	.25	.32	*	*	-	-	-	-	-	-
Lentils	*	*	*	*	-	-	*	*	-	-
Vetch	*	*	*	*	-	-	-	-	-	-
OTHERS	*	*	*	*	-	-	*	*	-	-
Neug	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	-	-	*	*	-	-
ALL CROPS	*	*	7.27	100.00	*	*	2.26	100.00	*	*

TABLE 1.5

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL BELG CROP AREA	%	AREA UNDER FARM MAGAGEMENT PRACTICES							
			IRRGATED	%	IMPRPOVED SEEDS APPLIED	%	FERTILIZER APPLIED	%	PESTICIDES APPLIED	%
CEREALS	287.04	82.21	8.53	98.50	9.79	*	90.56	90.17	13.92	98.37
Teff	13.56	3.88	-	-	*	*	1.50	1.49	*	*
Barley	103.52	29.65	*	*	*	*	46.11	45.91	7.58	53.57
Wheat	62.01	17.76	-	-	*	*	24.21	24.11	*	*
Maize	92.58	26.51	8.01	92.49	*	*	16.16	16.09	*	*
Sorghum	*	*	-	-	*	*	*	*	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	11.04	3.16	*	*	-	-	2.31	2.30	*	*
PULSES	60.28	17.26	*	*	*	*	9.87	9.83	*	*
Horse Beans	*	*	-	-	-	-	*	*	-	-
Field Peas	11.00	3.15	-	-	-	-	.27	.27	-	-
Haricot Beans	38.38	10.99	*	*	*	*	9.18	9.14	*	*
Chick Peas	*	*	-	-	-	-	*	*	-	-
Lentils	*	*	-	-	-	-	*	*	-	-
Vetch	*	*	-	-	-	-	-	-	-	-
OTHERS	*	*	-	-	-	-	-	-	-	-
Neug	*	*	-	-	-	-	-	-	-	-
LinSeed	*	*	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	-	-	-	-	-	-	-	-
ALL CROPS	349.17	100.00	8.66	100.00	*	*	100.43	100.00	14.15	100.00

TABLE 1.6

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Somale

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL BELG CROP AREA	%	AREA UNDER FARM MAGAGEMENT PRACTICES								
			IRRGATED	%	IMPRVED SEEDS APPLIED	%	FERTILIZER APPLIED	%	PESTICIDES APPLIED	%	
CEREALS	7.76	98.85	*	*	*	*	*	*	*	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-
Barley	*	*	-	-	-	-	-	-	-	-	-
Wheat	*	*	-	-	-	-	-	-	-	-	-
Maize	7.54	96.05	*	*	*	*	*	*	*	-	-
Sorghum	*	*	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-
PULSES	.09	1.15	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.09	1.15	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	7.85	100.00	*	*	*	*	*	*	*	-	-

TABLE 1.7

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

AREA (IN '000 HECTARES)

Benshangul-Gumuz

TYPE OF CROP	TOTAL BELG CROP AREA	%	AREA UNDER FARM MAGAGEMENT PRACTICES							
			IRRGATED	%	IMPRPOVED SEEDS APPLIED	%	FERTILIZER APPLIED	%	PESTICIDES APPLIED	%
CEREALS	.16	22.86	*	*	-	-	*	*	-	-
Teff	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	*	*	-	-
Maize	.16	22.86	*	*	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.54	77.14	*	*	-	-	.03	60.00	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.54	77.14	*	*	-	-	.03	60.00	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.70	100.00	*	*	-	-	.05	100.00	-	-



TABLE 1.8

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR
 BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
 1999/00(1992 E.C.)

(S.N.N.P.R)

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL BELG CROP AREA	%	AREA UNDER FARM MANGEMENT PRACTICES							
			IRRGATED	%	IMPRVED SEEDS APPLIED	%	FERTILIZER APPLIED	%	PESTICIDES APPLIED	%
CEREALS	120.76	51.73	.60	88.24	2.95	75.26	38.66	37.16	.47	34.81
Teff	2.19	.94	-	-	-	-	.95	.91	*	*
Barley	41.37	17.72	-	-	*	*	*	*	*	*
Wheat	.48	.21	-	-	*	*	*	*	*	*
Maize	66.81	28.62	.59	86.76	2.79	71.17	22.84	21.95	*	*
Sorghum	9.01	3.86	-	-	.13	3.32	1.87	1.80	*	*
Millet	*	*	-	-	-	-	*	*	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	112.68	48.27	*	*	*	*	65.38	62.84	.88	65.19
Horse Beans	*	*	-	-	-	-	*	*	-	-
Field Peas	.17	.07	-	-	-	-	-	-	-	-
Haricot Beans	111.02	47.56	*	*	*	*	64.41	61.91	.88	65.19
Chick Peas	*	*	-	-	-	-	-	-	-	-
Lentils	*	*	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
ALL CROPS	233.44	100.00	.68	100.00	3.92	100.00	104.04	100.00	1.35	100.00

TABLE 1.9

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL BELG CROP AREA	%	AREA UNDER FARM MAGAGEMENT PRACTICES							
			IRRGATED	%	IMPRVED SEEDS APPLIED	%	FERTILIZER APPLIED	%	PESTICIDES APPLIED	%
CEREALS	3.03	99.67	-	-	.32	100.00	-	-	*	*
Teff	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	2.82	92.76	-	-	.32	100.00	-	-	*	*
Sorghum	*	*	-	-	-	-	-	-	-	-
Millet	*	*	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	*	*	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
ALL CROPS	3.04	100.00	-	-	.32	100.00	-	-	*	*

TABLE 1.10

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Harari

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL BELG CROP AREA	%	AREA UNDER FARM MAGAGEMENT PRACTICES							
			IRRGATED	%	IMPRVED SEEDS APPLIED	%	FERTILIZER APPLIED	%	PESTICIDES APPLIED	%
CEREALS	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.04	100.00	-	-	-	-	.03	100.00	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.04	100.00	-	-	-	-	.03	100.00	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.04	100.00	-	-	-	-	.03	100.00	-	-

TABLE 1.11

ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES FOR
 BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
 1999/00(1992 E.C.)

Dire Dawa

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL BELG CROP AREA	%	AREA UNDER FARM MAGEMENT PRACTICES							
			IRRIGATED	%	IMPRVED SEEDS APPLIED	%	FERTILIZER APPLIED	%	PESTICIDES APPLIED	%
CEREALS	.04	80.00	.03	100.00	-	-	.03	100.00	-	-
Teff	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	.03	60.00	.02	66.67	-	-	.02	66.67	-	-
Sorghum	*	*	*	*	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.05	100.00	.03	100.00	-	-	.03	100.00	-	-

1.2 TOTAL AREA UNDER FERTILIZER BY TYPE

The results of the survey indicate that land area under both natural and commercial fertilizers were estimated to be 207.47 thousand hectares, covering 32.82% of the total area under Belg seasons crops of the private holdings. Of the total fertilized area 102 thousand hectares (49.16%) was reported to be under natural fertilizers. The coverage of commercial fertilizers was estimated to be 101.71 thousand hectares (49.02%), constituting of 90.72% DAP; 6.2% UREA and 3.08% mix of the two fertilizers (DAP+UREA). Moreover, 3760 hectares (1.81%) was reported to be the area under the mix of natural and commercial fertilizers (for details see Summary Table E.).

SUMMARY TABLE E: ESTIMATES OF TOTAL AREA UNDER FERTILIZER BY TYPE OF FERTILIZER OF BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/2000 (1992 E.C.)

SR.NO	TYPE OF FERTILIZER	FERTILIZER APPLIED AREA		PERCENTAGE FROM TOTAL BELG CROP AREA
		000' HA	%	
1	NATURAL	102	49.16	16.13
2	COMMERCIAL	101.71	49.02	16.09
2.1	DAP	92.27	90.72	14.59
2.2	UREA	6.31	6.2	1.00
2.3	DAP+UREA	3.13	3.08	0.49
3	BOTH (COM+NAT)	3.76	1.81	0.59
	TOTAL	207.47	100	32.81

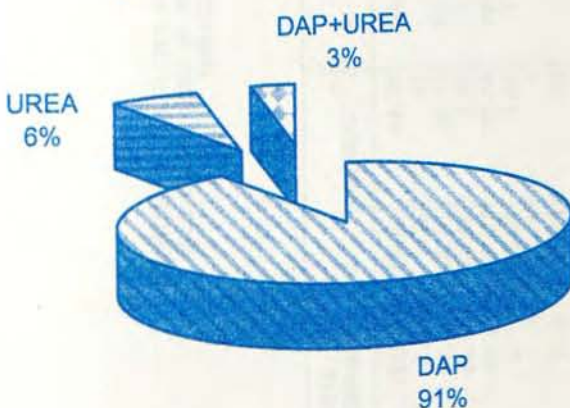
A. USE OF NATURAL FERTILIZERS

In general the application of natural fertilizers for Belg season crops in 1999/2000(1992 E.C.), varies from crop to crop. Of the total area under natural fertilizer , the highest proportion was reported for haricot beans crop which was estimated at 51.31 thousand hectares (50.30%). The fertilized area (natural fertilizer) under maize was the second and estimated to be 22.68 thousand hectares(22.24%), while area under barley stood third about 22.02 thousand hectares,21.59%(see Table 2).

B. USE OF COMMERCIAL FERTILIZERS

Out of the total land area under commercial fertilizers in 1999/2000(1992 E.C.) Belg season, the area under DAP was the highest which accounted for 90.72%, while the mix of the two fertilizers (DAP+UREA) and UREA were covering 3.08% and 6.2% of the Belg crop area, respectively (see Fig 3.).

Figure 3. Estimates of commercial fertilizer applied area by type for Belg season crops of private holdings in Ethiopia, 1999/2000(1992 E.C.)



Similarly, the application of commercial fertilizers varied from crop to crop. Of the total area under commercial fertilizers the highest area was reported for barley at 35.74 thousand hectares (35.14%). The second highest area reported under commercial fertilizers was for wheat i.e. 22.57 thousand hectares (22.19%) thousand hectares.

The regional distribution of both natural and commercial fertilizers application varied from region to region. For instance, of the total area under both (Natural + Commercial) fertilizers, the highest was reported for S.N.N.P.R Region which accounted for 104,030 hectares (50.14% of the total). Oromiya and Amhara Regions were the second and third to report the highest area under both (Natural and Commercial) fertilizers which were estimated to be 100,430 hectares (48.41%) and 2270 hectares (1.09%), respectively.



TABLE 2

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR
 BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
 1999/00(1992 E.C.)

National

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL (COMM+NAT)	%	NATURAL	%	COMME- RICAL	%	DAP	%	UREA	%	DAP+UREA	%	BOTH NAT+COM.	%
CEREALS	132.11	63.68	49.39	48.42	79.54	78.21	72.14	78.20	5.47	86.69	1.93	61.46	3.18	84.80
Teff	2.83	1.36	.51	.50	2.31	2.27	1.64	1.78	*	*	*	*	-	-
Barley	59.44	28.65	22.02	21.59	35.74	35.14	33.43	36.24	*	*	1.11	35.35	1.69	45.07
Wheat	24.82	11.96	2.02	1.98	22.57	22.19	21.43	23.23	1.06	16.80	*	*	.22	5.87
Maize	40.40	19.47	22.68	22.24	*	*	*	*	2.65	42.00	*	*	*	*
Sorghum	2.15	1.04	1.81	1.77	*	*	*	*	-	-	-	-	*	*
Millet	*	*	*	*	-	-	-	-	-	-	-	-	*	*
Oats	2.36	1.14	.24	.24	2.09	2.06	2.09	2.27	-	-	-	-	*	*
PULSES	75.35	36.32	52.61	51.58	22.17	21.80	20.11	21.80	.84	13.31	1.21	38.54	.57	15.20
Horse Beans	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Field Peas	.27	.13	*	*	*	*	*	*	-	-	-	-	-	-
Haricot Beans	73.65	35.50	51.31	50.30	21.77	21.41	19.72	21.38	.84	13.31	1.21	38.54	.57	15.20
Chick Peas	*	*	*	*	*	*	*	*	-	-	-	-	-	-
Lentils	*	*	-	-	*	*	*	*	-	-	-	-	-	-
Vetch	*	*	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS														
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	-	-	-	-	-	-	-	-	-	-
ALL CROPS	207.46	100.00	102.00	100.00	101.70	100.00	92.25	100.00	6.31	100.00	3.14	100.00	3.75	100.00

TABLE 2.1

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR
 BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
 1999/00(1992 E.C.)

Tigray

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL (COMM+NAT)		NATURAL		COMME- RICIAL		DAP		UREA		DAP+UREA		BOTH NAT+COM.	
	*	%		%		%		%		%		%		%
CEREALS	*	*	-	-	*	*	-	-	-	-	*	*	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	*	*	-	-	*	*	-	-	-	-	-	-	-	-
Maize	*	*	-	-	*	*	-	-	-	-	*	*	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	*	*	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	-	-	*	*	-	-	-	-	*	*	-	-

TABLE 2.2

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR
 BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
 1999/00(1992 E.C.)

Amhara

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL (COMM+NAT)	%	NATURAL	%	COMME- RICIAL	%	DAP	%	UREA	%	DAP+UREA	%	BOTH NAT+COM.	%
CEREALS	2.21	97.79	1.60	96.97	.50	100.00	.29	100.00	*	*	.15	100.00	*	*
Teff	*	*	*	*	*	*	-	-	-	-	*	*	-	-
Barley	.77	34.07	.41	24.85	.29	58.00	.29	100.00	*	*	-	-	*	*
Wheat	*	*	.14	8.48	*	*	-	-	*	*	*	*	*	*
Maize	*	*	*	*	*	*	-	-	-	-	*	*	*	*
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	.05	2.21	.05	3.03	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	-	-	-	-	-	-	-	-	-	-
ALL CROPS	2.26	100.00	1.65	100.00	.50	100.00	.29	100.00	*	*	.15	100.00	*	*

TABLE 2.3

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Oromia

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL (COMM+NAT)	%	NATURAL	%	COMME- RICIAL	%	DAP	%	UREA	%	DAP+UREA	%	BOTH NAT+COM.	%
CEREALS	90.56	90.17	23.62	78.01	64.90	95.62	60.09	96.10	3.99	92.15	.82	80.39	2.04	89.47
Teff	1.50	1.49	*	*	1.46	2.15	.92	1.47	*	*	.01	.98	-	-
Barley	46.11	45.91	9.53	31.47	34.99	51.55	32.99	52.76	*	*	.80	78.43	*	*
Wheat	24.21	24.11	*	*	22.42	33.03	21.43	34.27	.99	22.86	-	-	.22	9.65
Maize	16.16	16.09	12.26	40.49	*	*	*	*	*	*	-	-	.19	8.33
Sorghum	*	*	*	*	*	*	*	*	*	*	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	2.31	2.30	.19	.63	2.09	3.08	2.09	3.34	-	-	-	-	*	*
PULSES	9.87	9.83	6.66	21.99	2.97	4.38	2.43	3.89	*	*	.20	19.61	*	*
Horse Beans	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Field Peas	.27	.27	*	*	*	*	*	*	*	*	-	-	-	-
Haricot Beans	9.18	9.14	6.37	21.04	2.58	3.80	*	*	*	*	.20	19.61	*	*
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	*	*	-	-	*	*	*	*	-	-	-	-	-	-
Vetch	*	*	-	-	*	*	*	*	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	100.43	100.00	30.28	100.00	67.87	100.00	62.53	100.00	4.33	100.00	1.02	100.00	2.28	100.00

TABLE 2.4

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR
 BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
 1999/00(1992 E.C.)

Somale

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL (COMM+NAT)	%	NATURAL	%	COMME- RICAL	%	DAP	%	UREA	%	DAP+UREA	%	BOTH NAT+COM.	%
CEREALS	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	*	-	-	-	-	-	-	-	-	-	-

TABLE 2.5

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Benshangul-Gumuz

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL (COMM+NAT)	%	NATURAL	%	COMME- RICAL	%	DAP	%	UREA	%	DAP+UREA	%	BOTH NAT+COM.	%
CEREALS	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.03	60.00	*	*	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.03	60.00	*	*	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.05	100.00	.05	100.00	-	-	-	-	-	-	-	-	-	-

TABLE 2.6

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR
 BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
 1999/00(1992 E.C.)

(S.N.N.P.R)

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL (COMM+NAT)	%	NATURAL	%	COMME- RICAL	%	DAP	%	UREA	%	DAP+UREA	%	BOTH NAT+COM.	%
CEREALS	38.66	37.16	23.81	34.17	*	*	*	*	*	*	*	*	*	*
Teff	.95	.91	*	*	.77	2.33	.72	2.45	.04	2.08	*	*	-	-
Barley	*	*	*	*	.46	1.39	.15	.51	-	-	*	*	*	*
Wheat	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Maize	22.84	21.95	9.37	13.45	*	*	*	*	*	*	*	*	*	*
Sorghum	1.87	1.80	1.78	2.55	*	*	*	*	-	-	-	-	*	*
Millet	*	*	*	*	-	-	-	-	-	-	-	-	*	*
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	65.38	62.84	45.86	65.82	19.18	58.12	17.67	60.04	.51	26.56	1.00	60.24	.33	100
Horse Beans	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	64.41	61.91	44.90	64.44	19.18	58.12	17.67	60.04	.51	26.56	1.00	60.24	.33	100
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	104.04	100.00	69.68	100.00	33.00	100.00	29.43	100.00	1.92	100.00	1.66	100.00	*	*

TABLE 2.5

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR
 BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
 1999/00(1992 E.C.)

Benshangul-Gumuz

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL (COMM+NAT)		NATURAL		COMME- RICAL		DAP		UREA		DAP+UREA		BOTH NAT+COM.	
		%		%		%		%		%		%		%
CEREALS	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.03	60.00	*	*	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.03	60.00	*	*	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.05	100.00	.05	100.00	-	-	-	-	-	-	-	-	-	-

TABLE 2.6

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

(S.N.N.P.R)

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL (COMM+NAT)	%	NATURAL	%	COMME- RICIAL	%	DAP	%	UREA	%	DAP+UREA	%	BOTH NAT+COM.	%
CEREALS	38.66	37.16	23.81	34.17	*	*	*	*	*	*	*	*	*	*
Teff	.95	.91	*	*	.77	2.33	.72	2.45	.04	2.08	*	*	-	-
Barley	*	*	*	*	.46	1.39	.15	.51	-	-	*	*	*	*
Wheat	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Maize	22.84	21.95	9.37	13.45	*	*	*	*	*	*	*	*	*	*
Sorghum	1.87	1.80	1.78	2.55	*	*	*	*	-	-	-	-	*	*
Millet	*	*	*	*	-	-	-	-	-	-	-	-	*	*
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	65.38	62.84	45.86	65.82	19.18	58.12	17.67	60.04	.51	26.56	1.00	60.24	.33	100
Horse Beans	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	64.41	61.91	44.90	64.44	19.18	58.12	17.67	60.04	.51	26.56	1.00	60.24	.33	100
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	104.04	100.00	69.68	100.00	33.00	100.00	29.43	100.00	1.92	100.00	1.66	100.00	*	*

TABLE 2.7

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR
 BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
 1999/00(1992 E.C.)

Harari

AREA (IN '000 HECTARES)

TYPE OF CROP	TOTAL (COMM+NAT)	%	NATURAL	%	COMME- RICAL	%	DAP	%	UREA	%	DAP+UREA	%	BOTH NAT+COM.	%
CEREALS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.03	100.00	*	*	-	-	-	-	-	-	-	-	*	*
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.03	100.00	*	*	-	-	-	-	-	-	-	-	*	*
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.03	100.00	*	*	-	-	-	-	-	-	-	-	.01	100.00

TABLE 2.8

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR
BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

AREA (IN '000 HECTARES)

Dire Dawa

TYPE OF CROP	TOTAL (COMM+NAT)	%	NATURAL	%	COMME- RICIAL	%	DAP	%	UREA	%	DAP+UREA	%	BOTH NAT+COM.	%
CEREALS	.03	100.00	.02	66.67	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.02	66.67	.02	66.67	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.03	100.00	.03	100.00	-	-	-	-	-	-	-	-	-	-

1.3 TOTAL QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY TYPE

In 1999/2000(1992 E.C) the total quantity of commercial fertilizer used for Belg season crop production was estimated at 76,680 quintals. Of this total, the share of DAP was the highest accounting for 88.28% (67,690 quintals). UREA was the second highest accounting for 6.26% (4800 quintals) while the mixture of the two types of fertilizers (DAP+UREA) stood third accounting for 5.48% (4200 quintals) (see Fig 4).

Figure 4. Estimates of total quantity of commercial fertilizer applied by type for Belg season crops of private holdings in Ethiopia, 1999/2000(1992 E.C.)

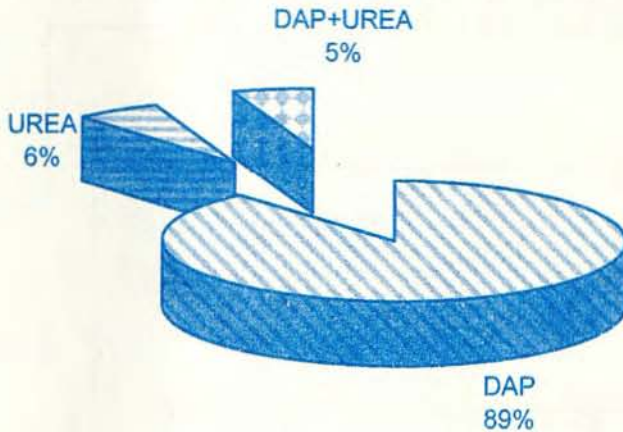


TABLE 3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED
BY TYPE OF FERTILIZER FOR BELG SEASON CROPS OF
PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

National

QUANTITY (IN '000 QUINTAL)

TYPE OF CROP	TOTAL QUANTITY	%	UREA	%	DAP	%	DAP + UREA	%
CEREALS	67.15	87.56	4.16	86.67	59.23	87.49	3.77	89.76
Teff	1.25	1.63	*	*	.86	1.27	*	*
Barley	36.78	47.96	*	*	33.39	49.32	*	*
Wheat	17.60	22.95	*	*	16.41	24.24	*	*
Maize	9.88	12.88	*	*	6.92	10.22	*	*
Sorghum	*	*	-	-	*	*	-	-
Millet	-	-	-	-	-	-	-	-
Oats	1.57	2.05	-	-	1.57	2.32	-	-
PULSES	9.54	12.44	.64	13.33	8.47	12.51	.43	10.24
Horse Beans	*	*	-	-	-	-	*	*
Field Peas	*	*	-	-	*	*	-	-
Haricot Beans	9.44	12.31	.64	13.33	8.40	12.41	.40	9.52
Chick Peas	-	-	-	-	-	-	-	-
Lentils	*	*	-	-	*	*	-	-
Vetch	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
ALL CROPS	76.69	100.00	4.80	100.00	67.70	100.00	4.20	100.00

TABLE 3.1 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED
BY TYPE OF FERTILIZER FOR BELG SEASON CROPS OF
PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Tigray

QUANTITY (IN '000 QUINTAL)

TYPE OF CROP	TOTAL QUANTITY	%	UREA	%	DAP	%	DAP + UREA	%
CEREALS	1.69	98.83	*	*	*	*	1.62	98.18
Teff	-	-	-	-	-	-	-	-
Barley	*	*	-	-	-	-	*	*
Wheat	*	*	-	-	-	-	*	*
Maize	*	*	*	*	*	*	*	*
Sorghum	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-
PULSES	*	*	-	-	-	-	*	*
Horse Beans	*	*	-	-	-	-	*	*
Field Peas	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
ALL CROPS	1.71	100.00	*	*	*	*	1.65	100.00

TABLE 3.2 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED
BY TYPE OF FERTILIZER FOR BELG SEASON CROPS OF
PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Amhara

QUANTITY (IN '000 QUINTAL)

TYPE OF CROP	TOTAL QUANTITY	%	UREA	%	DAP	%	DAP + UREA	%
CEREALS	1.44	100.00	*	*	*	*	.32	100.00
Teff	*	*	-	-	-	-	*	*
Barley	*	*	-	-	*	*	-	-
Wheat	*	*	*	*	*	*	*	*
Maize	*	*	-	-	*	*	*	*
Sorghum	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
ALL CROPS	1.44	100.00	*	*	*	*	.32	100.00

TABLE 3.3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED
BY TYPE OF FERTILIZER FOR BELG SEASON CROPS OF
PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Oromia

QUANTITY (IN '000 QUINTAL)

TYPE OF CROP	TOTAL QUANTITY	%	UREA	%	DAP	%	DAP + UREA	%
CEREALS	56.67	97.35	2.70	90.00	52.60	97.90	*	*
Teff	.58	1.00	*	*	.49	.91	*	*
Barley	34.75	59.70	*	*	32.02	59.59	*	*
Wheat	17.41	29.91	*	*	16.41	30.54	-	-
Maize	2.29	3.93	*	*	*	*	-	-
Sorghum	*	*	-	-	*	*	-	-
Millet	-	-	-	-	-	-	-	-
Oats	1.57	2.70	-	-	1.57	2.92	-	-
PULSES	1.54	2.65	*	*	1.13	2.10	*	*
Horse Beans	-	-	-	-	-	-	-	-
Field Peas	*	*	-	-	*	*	-	-
Haricot Beans	1.47	2.53	*	*	1.06	1.97	*	*
Chick Peas	-	-	-	-	-	-	-	-
Lentils	*	*	-	-	*	*	-	-
Vetch	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
ALL CROPS	58.21	100.00	3.00	100.00	53.73	100.00	*	*

TABLE 3.4 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED
BY TYPE OF FERTILIZER FOR BELG SEASON CROPS OF
PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Somale

QUANTITY (IN '000 QUINTAL)

TYPE OF CROP	TOTAL QUANTITY	%	UREA	%	DAP	%	DAP + UREA	%
CEREALS	*	*	*	*	*	*	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	*	*	*	*	*	*	-	-
Sorghum	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	*	*	*	-	-

TABLE 3.5 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED
BY TYPE OF FERTILIZER FOR BELG SEASON CROPS OF
PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Benshangul-Gumuz

QUANTITY (IN '000 QUINTAL)

TYPE OF CROP	TOTAL QUANTITY	%	UREA	%	DAP	%	DAP + UREA	%
CEREALS	-	-	*	*	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	*	*	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-
PULSES	*	*	*	*	*	*	-	-
Horse Beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot Beans	*	*	*	*	*	*	-	-
Chick Peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	*	*	*	-	-

TABLE 3.6 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED
BY TYPE OF FERTILIZER FOR BELG SEASON CROPS OF
PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

(S.N.N.P.R)

QUANTITY (IN '000 QUINTAL)

TYPE OF CROP	TOTAL QUANTITY	%	UREA	%	DAP	%	DAP + UREA	%
CEREALS	7.33	48.51	*	*	5.48	42.88	.46	68.66
Teff	.55	3.64	*	*	.37	2.90	*	*
Barley	.48	3.18	-	-	.28	2.19	*	*
Wheat	-	-	-	-	-	-	-	-
Maize	*	*	*	*	*	*	.21	31.34
Sorghum	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-
PULSES	7.78	51.49	*	*	7.30	57.12	.21	31.34
Horse Beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot Beans	7.78	51.49	*	*	7.30	57.12	.21	31.34
Chick Peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
ALL CROPS	15.11	100.00	1.66	100.00	12.78	100.00	.67	100.00

TABLE 3.7 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED
BY TYPE OF FERTILIZER FOR BELG SEASON CROPS OF
PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Gambela

QUANTITY (IN '000 QUINTAL)

TYPE OF CROP	TOTAL QUANTITY		UREA		DAP		DAP + UREA	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	*	*	-	-	-	*	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	*	*	-	-	-	*	-	-
Sorghum	-	-	-	-	-	*	-	-
Millet	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
ALL CROPS	*	*	-	-	-	*	-	-

TABLE 3.8 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED
BY TYPE OF FERTILIZER FOR BELG SEASON CROPS OF
PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Harari

QUANTITY (IN '000 QUINTAL)

TYPE OF CROP	TOTAL QUANTITY	%	UREA	%	DAP	%	DAP + UREA	%
CEREALS	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-
PULSES	.19	100.00	.07	100.00	*	*	.08	100.00
Horse Beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot Beans	.19	100.00	.07	100.00	*	*	.08	100.00
Chick Peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
ALL CROPS	.19	100.00	.07	100.00	*	*	.08	100.00

TABLE 3.9 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED
BY TYPE OF FERTILIZER FOR BELG SEASON CROPS OF
PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.) :

Dire Dawa

QUANTITY (IN '000 QUINTAL)

TYPE OF CROP	TOTAL QUANTITY	%	UREA	%	DAP	%	DAP + UREA	%
CEREALS	*	*	*	*	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	*	*	*	*	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	*	-	-	-	-

SECTION 2.

2.1 TOTAL AREA AND DISTRIBUTION OF AREA UNDER DIFFERENT FARM MANAGEMENT PRACTICE BY AREA SIZE GROUPS.

For the purpose of a systematic presentation of this report, total Belg crop area have been classified in to seven area size groups. These groupings are:

- Group 1 - under 0.10 hectare
- Group 2 - 0.10 - 0.50 hectare
- Group 3 - 0.51 - 1.00 hectare
- Group 4 - 1.01 - 2.00 hectares
- Group 5 - 2.01 - 5.00 hectares
- Group 6 - 5.01 - 10.00 hectares
- Group 7 - 10.01 and above hectares

According to the survey results, in 1999/2000 (1992 E.C) it was estimated that a total of 632.21 thousand hectares was under Belg season major crops. By these groupings, as presented in Figure 5 the highest Belg crop area 49.45% fall in area size group 2 which followed by group 3 (21.50%) and group 1 (16.89%). For details see Table 4 and Fig 5.

Figure 5. Estimates of total area under Belg season crops by size groups of private holdings in Ethiopia, 1999/2000 (1992 E.C.)

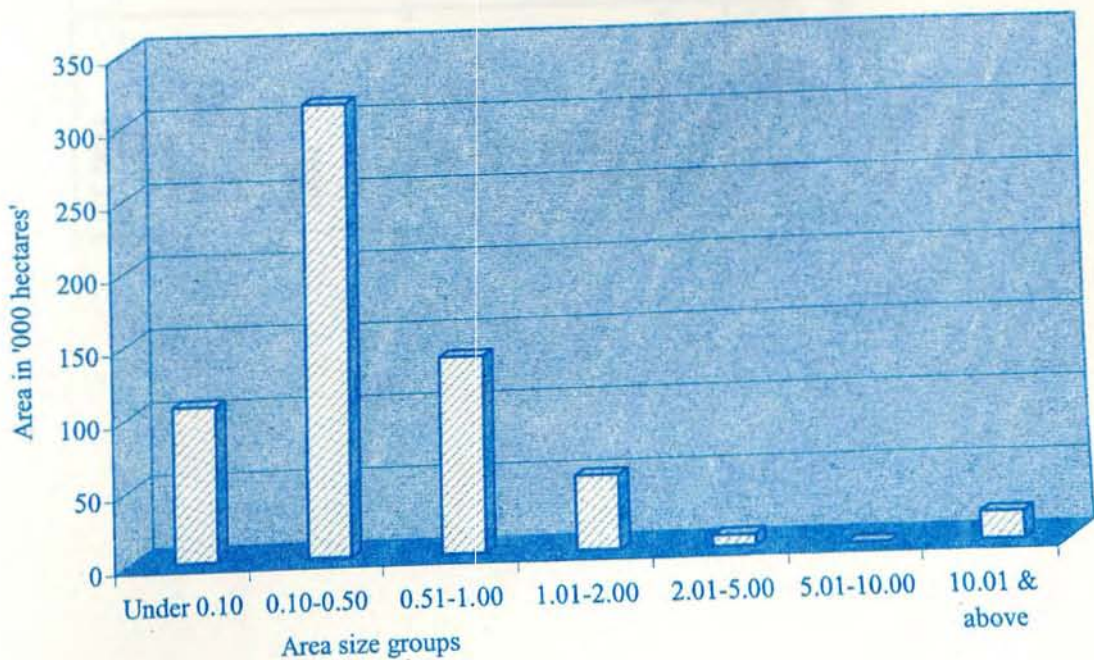


TABLE 4

ESTIMATE OF AREA BY SIZE OF HOLDING FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

National

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
CEREALS	67.37	228.51	103.85	37.48	5.14	*	*
Teff	3.72	9.50	*	*	*	-	-
Barley	25.98	95.77	30.77	6.77	*	-	*
Wheat	4.47	27.82	25.62	6.07	-	-	-
Maize	28.05	79.98	42.02	21.52	1.25	*	*
Sorghum	2.04	6.79	*	*	*	-	-
Millet	.32	*	*	-	-	-	-
Oats	2.79	8.52	*	-	-	-	-
PULSES	38.98	82.58	31.88	13.29	*	-	*
Horse Beans	1.95	*	-	-	.84	-	-
Field Peas	2.14	5.65	*	*	-	-	-
Haricot Beans	33.78	68.63	28.29	12.38	1.60	-	*
Chick Peas	.26	*	*	-	-	-	-
Lentils	.53	*	*	-	-	-	-
Vetch	*	*	-	-	-	-	-
OTHERS	*	*	*	-	-	-	-
Neug	-	*	-	-	-	-	-
LinSeed	*	*	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Fenugreek	.21	*	*	-	-	-	-
ALL CROPS	106.79	312.58	135.92	50.77	7.58	*	*

TABLE 4.1

ESTIMATE OF AREA BY SIZE OF HOLDING AND REGION FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
TIGRAY	0.05	0.51	0.38	-	-	-	-
AFAR	*	-	-	-	-	-	-
AMHARA	9.72	6.43	4.50	2.81	-	-	12.37
ROMIYA	55.48	185.74	77.56	21.45	3.49	-	5.46
SOMALIE	0.56	2.57	2.32	*	0.65	-	-
BENSHANGUL-GUMZ	0.56	0.08	-	-	-	-	-
S.N.N.P.R	39.94	116.52	50.28	24.47	*	-	-
GAMBELLA	0.36	0.74	0.83	*	-	0.18	0.56
HARARI	0.04	-	-	-	-	-	-
ADDIS ABABA	-	-	-	-	-	-	-
DIRE DAWA	0.04	-	-	-	-	-	-
ALL CROPS	106.79	312.58	135.92	50.77	7.58	0.18	18.39

TABLE 4.2

ESTIMATE OF AREA BY SIZE OF HOLDING FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Tigray

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
CEREALS	.04	.51	.38	-	-	-	-
Teff	*	-	-	-	-	-	-
Barley	*	*	-	-	-	-	-
Wheat	-	*	*	-	-	-	-
Maize	.02	*	*	-	-	-	-
Sorghum	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
ALL CROPS	.05	.51	.38	-	-	-	-

TABLE 4.3

ESTIMATE OF AREA BY SIZE OF HOLDING FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Afar

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
CEREALS	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-
PULSES	*	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-
Haricot Beans	*	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
ALL CROPS	*	-	-	-	-	-	-

TABLE 4.4

ESTIMATE OF AREA BY SIZE OF HOLDING FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Amhara

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
CEREALS	8.62	6.29	4.50	2.81	*	-	*
Teff	1.74	*	-	-	-	-	-
Barley	3.54	*	4.50	2.81	*	-	*
Wheat	.68	*	-	-	-	-	-
Maize	2.04	*	-	-	-	-	-
Sorghum	*	*	-	-	-	-	-
Millet	-	-	-	-	-	-	-
Oats	.52	-	-	-	-	-	-
PULSES	.93	*	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-
Field Peas	*	-	-	-	-	-	-
Haricot Beans	*	-	-	-	-	-	-
Chick Peas	.25	-	-	-	-	-	-
Lentils	*	*	-	-	-	-	-
Vetch	*	-	-	-	-	-	-
OTHERS	*	*	-	-	-	-	-
Neug	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Fenugreek	*	*	-	-	-	-	-
ALL CROPS	9.72	6.43	4.50	2.81	*	-	*

TABLE 4.5

ESTIMATE OF AREA BY SIZE OF HOLDING FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Oromia

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
CEREALS	40.43	157.70	68.88	18.98	*	-	-
Teff	.96	7.99	*	*	*	-	-
Barley	18.72	66.64	16.10	*	-	-	-
Wheat	3.58	26.90	25.47	6.07	-	-	-
Maize	14.77	45.76	23.68	*	*	-	-
Sorghum	*	*	*	*	-	-	-
Millet	-	-	-	-	-	-	-
Oats	2.27	8.52	*	-	-	-	-
PULSES	14.79	26.65	8.49	2.47	*	-	*
Horse Beans	1.59	*	-	-	.84	-	-
Field Peas	1.85	5.64	*	*	-	-	-
Haricot Beans	11.00	13.86	4.90	*	1.60	-	*
Chick Peas	-	*	*	-	-	-	-
Lentils	*	*	*	-	-	-	-
Vetch	*	*	-	-	-	-	-
OTHERS	*	*	*	-	-	-	-
Neug	-	*	-	-	-	-	-
LinSeed	*	*	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Fenugreek	*	*	*	-	-	-	-
ALL CROPS	55.48	185.74	77.56	21.45	3.49	-	*

TABLE 4.6

ESTIMATE OF AREA BY SIZE OF HOLDING FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Somale

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
CEREALS	.53	2.52	2.32	*	.65	-	-
Teff	-	-	-	-	-	-	-
Barley	*	*	*	-	-	-	-
Wheat	*	*	-	-	-	-	-
Maize	.50	2.38	2.27	*	.65	-	-
Sorghum	*	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-
PULSES	.04	.05	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-
Haricot Beans	.04	.05	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
ALL CROPS	.56	2.57	2.32	*	.65	-	-

TABLE 4.7

ESTIMATE OF AREA BY SIZE OF HOLDING FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Benshangul-Gumuz

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
CEREALS	.11	*	-	-	-	-	-
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	*	*	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-
PULSES	.45	.03	*	-	-	-	-
Horse Beans	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-
Haricot Beans	.45	.03	*	-	-	-	-
Chick Peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
ALL CROPS	.56	.08	*	-	-	-	-

TABLE 4.8

ESTIMATE OF AREA BY SIZE OF HOLDING FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

(S.N.N.P.R)

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
CEREALS	17.23	60.71	26.94	*	*	-	-
Teff	.99	1.18	*	-	-	-	-
Barley	3.70	25.64	*	*	-	-	-
Wheat	.20	.28	-	-	-	-	-
Maize	10.26	29.72	15.20	*	-	-	-
Sorghum	1.76	3.75	*	*	*	-	-
Millet	.32	*	*	-	-	-	-
Oats	-	-	-	-	-	-	-
PULSES	22.72	55.81	23.33	10.82	-	-	-
Horse Beans	.36	*	-	-	-	-	-
Field Peas	.16	*	-	-	-	-	-
Haricot Beans	22.19	54.68	23.33	10.82	-	-	-
Chick Peas	*	-	-	-	-	-	-
Lentils	.01	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
ALL CROPS	39.94	116.52	50.28	24.47	*	-	-

TABLE 4.9

ESTIMATE OF AREA BY SIZE OF HOLDING FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Gambela

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
CEREALS	.35	.73	.83	*	-	-	-
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	*	-	-	-
Maize	.33	.73	.65	*	-	-	-
Sorghum	*	-	*	-	-	-	-
Millet	*	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
ALL CROPS	.36	.74	.83	*	-	-	-

TABLE 4.10

ESTIMATE OF AREA BY SIZE OF HOLDING FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Harari

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
CEREALS	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-
PULSES	.04	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-
Haricot Beans	.04	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
ALL CROPS	.04	-	-	-	-	-	-

TABLE 4.11

ESTIMATE OF AREA BY SIZE OF HOLDING FOR BELG SEASON
CROPS OF PRIVATE HOLDINGS IN ETHIOPIA
1999/00(1992 E.C.)

Dire Dawa

AREA (IN '000 HECTARES)

TYPE OF CROP	SIZE OF HOLDING IN HECTARES						
	UNDER 0.10	0.10-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	10.01 & ABOVE
CEREALS	.04	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	.03	-	-	-	-	-	-
Sorghum	*	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
ALL CROPS	.04	-	-	-	-	-	-

2.2 THE DISTRIBUTION OF AREA UNDER DIFFERENT FARM MANAGEMENT PRACTICES BY AREA SIZE GROUPS.

According to the survey results, the total land area under different farm management practices was estimated to be 257.76 thousand hectares (40.77% of the total Belg crops area). Of this total, the highest 52% land area under improved farm management practices was exercised by area size group 2. Second and third by rank were area size groups 3 and 1, covering 18.41% and 17.9%, respectively (for details see Summary Table F.).

SUMMARY TABLE F: ESTIMATES OF TOTAL AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY AREA SIZE GROUPS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/2000 (1992 E.C.)

Area size groups in hectar	Total Belg crop area		Area under impr. farm Management practices	
	'000 ha	%	'000 ha	%
Under 0.10	106.79	16.89	46.14	17.9
0.10-0.50	312.60	49.44	134.04	52.00
0.51-1.00	135.91	21.50	47.44	18.41
1.01-2.00	50.77	8.03	27.91	10.83
2.01-5.00	7.57	1.20	2.23	0.87
5.01-10.00	0.18	0.03	-	-
10.01 & above	18.39	2.91	-	-
TOTAL	632.21	100.00	257.76	100.00

TABLE 5 ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY SIZE OF HOLDINGS FOR BELG SEASON OF PRIVATE HOLDINGS IN ETHIOPIA 1999/00(1992 E.C.)

National

AREA (IN '000 HECTARES)

SIZE OF HOLDING (IN HECTARES)	IRRIGATED AREA	%	IMPROVED SEEDS APPLIED AREA	%	FERTILIZER APPLIED AREA								PESTICIDES APPLIED AREA	%
					TOTAL	%	NATURAL	%	COMMER.	%	NAT + COM	%		
UNDER 0.10	8.60	46.92	1.41	8.63	33.99	16.38	19.55	19.16	13.59	13.36	.85	22.61	2.14	13.48
0.10 - 0.50	8.30	45.28	*	*	108.30	52.20	54.63	53.55	51.73	50.87	1.94	51.60	9.33	58.75
0.51 - 1.00	*	*	*	*	40.66	19.60	18.66	18.29	21.76	21.40	*	*	2.87	18.07
1.01 - 2.00	*	*	*	*	23.99	11.56	9.17	8.99	*	*	*	*	*	*
2.01 - 5.00	*	*	*	*	*	*	-	-	*	*	-	-	-	-
5.01 -10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	18.33	100.00	16.34	100.00	207.47	100.00	102.01	100.00	101.70	100.00	3.76	100.00	15.88	100.00

TABLE 5.1 ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY SIZE OF HOLDINGS FOR BELG SEASON OF PRIVATE HOLDINGS IN ETHIOPIA 1999/00(1992 E.C.)

Tigray

AREA (IN '000 HECTARES)

SIZE OF HOLDING (IN HECTARES)	IRRIGATED AREA	%	IMPROVED SEEDS APPLIED AREA	%	FERTILIZER APPLIED AREA								PESTICIDES APPLIED AREA	%
					TOTAL	%	NATURAL	%	COMMER.	%	NAT + COM	%		
UNDER 0.10	.03	12.53	-	-	*	*	-	-	*	*	-	-	-	-
0.10 - 0.50	*	*	-	-	*	*	-	-	*	*	-	-	-	-
0.51 - 1.00	*	*	-	-	*	*	-	-	*	*	-	-	-	-
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 -10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	*	*	-	-	*	*	-	-	*	*	-	-	-	-

TABLE 5.2 ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY SIZE OF HOLDINGS FOR BELG SEASON OF PRIVATE HOLDINGS IN ETHIOPIA 1999/00(1992 E.C.)

Amhara

AREA (IN '000 HECTARES)

SIZE OF HOLDING (IN HECTARES)	IRRIGATED AREA	%	IMPROVED SEEDS APPLIED AREA	%	FERTILIZER APPLIED AREA								PESTICIDES APPLIED AREA	%
					TOTAL	%	NATURAL	%	COMMER.	%	NAT + COM	%		
UNDER 0.10	5.38	74.00	*	*	1.59	70.35	1.30	78.79	*	*	*	*	*	*
0.10 - 0.50	1.90	26.13	-	-	*	*	*	*	*	*	-	-	*	*
0.51 - 1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 -10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	7.27	100.00	*	*	2.26	100.00	1.65	100.00	.50	100.00	*	*	*	*

TABLE 5.3 ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY SIZE OF HOLDINGS FOR BELG SEASON OF PRIVATE HOLDINGS IN ETHIOPIA 1999/00(1992 E.C.)

Oromia

AREA (IN '000 HECTARES)

SIZE OF HOLDING (IN HECTARES)	IRRIGATED AREA	%	IMPROVED SEEDS APPLIED AREA	%	FERTILIZER APPLIED AREA								PESTICIDES APPLIED AREA	%
					TOTAL	%	NATURAL	%	COMMER.	%	NAT + COM	%		
UNDER 0.10	2.97	34.30	*	*	13.85	13.65	6.65	21.21	6.83	10.06	.37	16.23	1.89	13.36
0.10 - 0.50	5.37	62.01	*	*	57.35	56.50	15.48	49.38	40.93	60.31	.94	41.23	8.77	61.98
0.51 - 1.00	*	*	*	*	23.66	23.31	7.71	24.59	15.71	23.15	*	*	2.40	16.96
1.01 - 2.00	-	-	*	*	6.11	6.02	*	*	3.88	5.72	*	*	*	*
2.01 - 5.00	-	-	*	*	*	*	-	-	*	*	-	-	-	-
5.01 -10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8.66	100.00	*	*	101.50	100.00	31.35	100.00	67.87	100.00	2.28	100.00	14.15	100.00

TABLE 5.4 ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY SIZE OF HOLDINGS FOR BELG SEASON OF PRIVATE HOLDINGS IN ETHIOPIA 1999/00(1992 E.C.)

Somale

AREA (IN '000 HECTARES)

SIZE OF HOLDING (IN HECTARES)	IRRIGATED AREA	%	IMPROVED SEEDS APPLIED AREA	%	FERTILIZER APPLIED AREA								PESTICIDES APPLIED AREA	%	
					TOTAL	%	NATURAL	%	COMMER.	%	NAT + COM	%			
UNDER 0.10	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
0.10 - 0.50	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
0.51 - 1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.01 - 2.00	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 -10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-

TABLE 5.5 ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY SIZE OF HOLDINGS FOR BELG SEASON OF PRIVATE HOLDINGS IN ETHIOPIA 1999/00(1992 E.C.)

Benshangul-Gumuz

AREA (IN '000 HECTARES)

SIZE OF HOLDING (IN HECTARES)	IRRIGATED AREA	%	IMPROVED SEEDS APPLIED AREA	%	FERTILIZER APPLIED AREA								PESTICIDES APPLIED AREA	%	
					TOTAL	%	NATURAL	%	COMMER.	%	NAT + COM	%			
UNDER 0.10	.04	50.00	-	-	.05	100.00	.05	100.00	-	-	-	-	-	-	-
0.10 - 0.50	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
0.51 - 1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 -10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	.08	100.00	-	-	.05	100.00	.05	100.00	-	-	-	-	-	-	-

TABLE 5.6 ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY SIZE OF HOLDINGS FOR BELG SEASON OF PRIVATE HOLDINGS IN ETHIOPIA 1999/00(1992 E.C.)

(S.N.N.P.R)

AREA (IN '000 HECTARES)

SIZE OF HOLDING (IN HECTARES)	IRRIGATED AREA	%	IMPROVED SEEDS APPLIED AREA	%	FERTILIZER APPLIED AREA								PESTICIDES APPLIED AREA	%
					TOTAL	%	NATURAL	%	COMMER.	%	NAT + COM	%		
UNDER 0.10	.14	20.59	.80	20.41	18.58	17.77	11.66	16.69	6.56	19.79	.36	25.17	*	*
0.10 - 0.50	.54	79.41	2.46	62.76	50.32	48.12	38.56	55.20	10.54	31.80	*	*	.31	22.96
0.51 - 1.00	-	-	*	*	16.77	16.04	10.95	15.67	5.83	17.59	-	-	.46	34.07
1.01 - 2.00	-	-	-	-	18.90	18.07	8.69	12.44	*	*	-	-	*	*
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 -10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	.68	100.00	3.92	100.00	104.57	100.00	69.86	100.00	33.14	100.00	*	*	1.35	100.00

TABLE 5.7 ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY SIZE OF HOLDINGS FOR BELG SEASON OF PRIVATE HOLDINGS IN ETHIOPIA 1999/00(1992 E.C.)

Gambela

AREA (IN '000 HECTARES)

SIZE OF HOLDING (IN HECTARES)	IRRIGATED AREA	%	IMPROVED SEEDS APPLIED AREA	%	FERTILIZER APPLIED AREA								PESTICIDES APPLIED AREA	%
					TOTAL	%	NATURAL	%	COMMER.	%	NAT + COM	%		
UNDER 0.10	-	-	.02	6.25	-	-	-	-	-	-	-	-	-	-
0.10 - 0.50	-	-	.28	87.50	-	-	-	-	-	-	-	-	*	*
0.51 - 1.00	-	-	*	*	-	-	-	-	-	-	-	-	*	*
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 -10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	.32	100.00	-	-	-	-	-	-	-	-	*	*

TABLE 5.8 ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY SIZE OF HOLDINGS FOR BELG SEASON OF PRIVATE HOLDINGS IN ETHIOPIA 1999/00(1992 E.C.)

Harari

AREA (IN '000 HECTARES)

SIZE OF HOLDING (IN HECTARES)	IRRIGATED AREA	%	IMPROVED SEEDS APPLIED AREA	%	FERTILIZER APPLIED AREA								PESTICIDES APPLIED AREA	%
					TOTAL	%	NATURAL	%	COMMER.	%	NAT + COM	%		
UNDER 0.10	-	-	-	-	.03	100.00	.02	100.00	-	-	.01	100.00	-	-
0.10 - 0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.51 - 1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 -10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	.03	100.00	.02	100.00	-	-	.01	100.00	-	-

TABLE 5.9 ESTIMATES OF AREA UNDER IMPROVED FARM MANAGEMENT PRACTICES BY SIZE OF HOLDINGS FOR BELG SEASON OF PRIVATE HOLDINGS IN ETHIOPIA 1999/00(1992 E.C.)

Dire Dawa

AREA (IN '000 HECTARES)

SIZE OF HOLDING (IN HECTARES)	IRRIGATED AREA	%	IMPROVED SEEDS APPLIED AREA	%	FERTILIZER APPLIED AREA								PESTICIDES APPLIED AREA	%
					TOTAL	%	NATURAL	%	COMMER.	%	NAT + COM	%		
UNDER 0.10	.03	100.00	-	-	.02	66.67	.02	66.67	-	-	-	-	-	-
0.10 - 0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.51 - 1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 -10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	.03	100.00	-	-	.03	100.00	.03	100.00	-	-	-	-	-	-

SECTION 3.

3. TOTAL NUMBER OF BELG CROP PRODUCING HOLDERS REPORTING USE of IMPROVED FARM MANAGEMENT PRACTICES BY AGE.

For the purpose of preparing this report Belg crop producing holders' ages have been categorized in to nine groups, as follows:-

The group categories by age

group 1	-	under 18 years
group 2	-	18 - 20 years
group 3	-	21 - 24 years
group 4	-	25 - 29 years
group 5	-	30 - 39 years
group 6	-	40 - 49 years
group 7	-	50 - 59 years
group 8	-	60 years & above
group 9	-	not stated

Based on the survey results, a total of 4.64 million holders were engaged in the over all Belg season agricultural activities in 1999/2000 (1992 E.C.) Belg season. As mentioned above, these holders are categorized in to nine age groups based on the age of the holder. Accordingly, the highest number 1,235,400 (26.64%) of holders were estimated to fall in the age group 30 - 39. The second (22.85%) and third (16.07%) highest number of holders fall in the age groups 40 - 49 and 60 and above, respectively.

Moreover, it was estimated that a total of 1,998,840 Belg crop producing holders (about 43.10 of the total) reported the use of improved farm management practices. Among Belg producing holders the highest number of holders 17.52% reported to use natural

fertilizers while 13.02% and 8.16% of them reported to use commercial fertilizer and irrigation, respectively (see summary Table G and Table 7)

SUMMARY TABLE G: ESTIMATES OF TOTAL NUMBER OF BELG CROP PRODUCING HOLDERS REPORTING USE OF FARM MANAGEMENT PRACTICES BY AGE FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/2000 (1992 E.C.)

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF BELG CROP PRODUCING HOLDERS IN		NUMBER OF BELG CROP PRODUCING HOLDERS REPORTING USE OF FARM MANAGEMENT PRACTICES	
	'000	%	'000	%
UNDER 18	34.87	0.75	19.72	0.99
18 - 20	74.94	1.62	18.07	0.90
21 - 24	209.84	4.52	79.16	3.96
25 - 29	633.12	13.65	267.62	13.39
30 - 39	1235.40	26.64	541.55	27.10
40 - 49	1059.56	22.85	444.26	22.23
50 - 59	644.63	13.90	303.24	15.17
60 & ABOVE	745.14	16.07	325.22	16.27
NOT STATED	-	-	-	-
TOTAL	4637.50	100.00	1998.84	100.00

TABLE 6 ESTIMATES OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDER AND TYPE OF HOLDING DURING 1999/00(1992 E.C.)
BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA

National

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF HOLDERS ENGAGED						NUMBER IN THOUSANDS	
	WITH CROP ONLY	%	WITH LIVESTOCK ONLY	%	WITH CROP & LIVESTOCK	%	TOTAL NUMBER OF HOLDERS	%
	UNDER 18	10.54	2.38	-	-	24.33	.58	34.87
18 - 20	14.37	3.24	-	-	60.57	1.44	74.94	1.62
21 - 24	27.00	6.09	-	-	182.83	4.36	209.83	4.52
25 - 29	75.65	17.06	-	-	557.47	13.29	633.12	13.65
30 - 39	125.11	28.22	*	*	1,110.14	26.47	1,235.40	26.64
40 - 49	69.09	15.58	*	*	990.08	23.61	1,059.56	22.85
50 - 59	48.83	11.01	-	-	595.80	14.21	644.63	13.90
60 & ABOVE	72.74	16.41	-	-	672.40	16.03	745.14	16.07
NOT STATED	-	-	-	-	-	-	-	-
TOTAL	443.35	100.00	*	*	4,193.62	100.00	4,637.50	100.00

TABLE 6.1 ESTIMATES OF TOTAL NUMBER OF HOLDERS BY TYPE OF HOLDING AND REGION DURING 1999/00(1992 E.C.)
BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA

NUMBER IN THOUSANDS

REGION	TOTAL NUMBER OF HOLDERS ENGAGED						TOTAL NUMBER OF HOLDERS	%
	WITH CROP ONLY	%	WITH LIVESTOCK ONLY	%	WITH CROP & LIVESTOCK	%		
TIGRAY	*	*	-	-	18.94	0.54	20.33	0.44
AFAR	0.11	0.02	0.03	5.66	1.99	0.05	2.13	0.05
AMHARA	34.79	7.85	-	-	386.21	9.21	421.00	9.08
ROMIYA	279.88	63.13	0.38	71.70	2171.77	51.79	2452.02	52.87
SOMALIE	0.84	0.19	-	-	27.11	0.65	27.95	0.60
BENSHANGUL-GUMZ	2.84	0.64	-	-	38.37	0.68	41.22	0.89
S.N.N.P.R	113.27	25.55	0.11	20.75	1522.97	36.32	1636.36	35.28
GAMBELA	9.47	2.14	-	-	14.82	0.35	24.28	0.52
HARARI	-	-	-	-	8.58	0.20	9.28	0.20
ADDIS ABABA	-	-	-	-	-	-	-	-
DIRE DAWA	-	-	-	-	2.86	0.07	2.93	0.06
TOTAL	443.33	100.00	0.53	100.00	4193.63	100.00	4637.49	100.00

TABLE 6.2 ESTIMATES OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDER AND TYPE OF HOLDING DURING 1999/00(1992 E.C.)
BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA

Tigray

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF HOLDERS ENGAGED						NUMBER IN THOUSANDS	
	WITH CROP ONLY	%	WITH LIVESTOCK ONLY	%	WITH CROP & LIVESTOCK	%	TOTAL NUMBER OF HOLDERS	%
	UNDER 18	-	-	-	-	-	-	-
18 - 20	-	-	-	-	-	-	-	-
21 - 24	*	*	-	-	-	-	*	*
25 - 29	-	-	-	-	*	*	*	*
30 - 39	*	*	-	-	6.33	33.42	7.03	34.58
40 - 49	-	-	-	-	3.73	19.69	3.73	18.35
50 - 59	-	-	-	-	3.51	18.53	3.51	17.27
60 & ABOVE	*	*	-	-	4.49	23.71	4.93	24.25
NOT STATED	-	-	-	-	-	-	-	-
TOTAL	*	*	-	-	18.94	100.00	20.33	100.00

TABLE 6.3 ESTIMATES OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDER AND TYPE OF HOLDING DURING 1999/00(1992 E.C.)
BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA

Afar

NUMBER IN THOUSANDS

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF HOLDERS ENGAGED						TOTAL NUMBER OF HOLDERS	%
	WITH CROP ONLY	%	WITH LIVESTOCK ONLY	%	WITH CROP & LIVESTOCK	%		
UNDER 18	-	-	-	-	-	-	-	-
18 - 20	-	-	-	-	-	-	-	-
21 - 24	-	-	-	-	-	-	-	-
25 - 29	-	-	-	-	.39	19.60	.39	18.31
30 - 39	*	*	*	*	.26	13.07	.33	15.49
40 - 49	-	-	-	-	*	*	*	*
50 - 59	*	*	-	-	*	*	*	*
60 & ABOVE	*	*	-	-	*	*	*	*
NOT STATED	-	-	-	-	-	-	-	-
TOTAL	.11	100.00	*	*	1.99	100.00	2.13	100.00

TABLE 6.4 ESTIMATES OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDER AND TYPE OF HOLDING DURING 1999/00(1992 E.C.)
 BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA
 Amhara

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF HOLDERS ENGAGED						NUMBER IN THOUSANDS	
	WITH CROP ONLY		WITH LIVESTOCK ONLY		WITH CROP & LIVESTOCK		TOTAL NUMBER OF HOLDERS	%
		%		%		%		
UNDER 18	*	*	-	-	*	*	*	*
18 - 20	*	*	-	-	*	*	2.50	.59
21 - 24	*	*	-	-	10.14	2.63	11.07	2.63
25 - 29	6.47	18.60	-	-	41.94	10.86	48.40	11.50
30 - 39	6.46	18.57	-	-	84.48	21.87	90.94	21.60
40 - 49	7.16	20.58	-	-	96.21	24.91	103.37	24.55
50 - 59	4.64	13.34	-	-	77.18	19.98	81.82	19.43
60 & ABOVE	6.72	19.32	-	-	74.39	19.26	81.11	19.27
NOT STATED	-	-	-	-	-	-	-	-
TOTAL	34.79	100.00	-	-	386.21	100.00	421.00	100.00

TABLE 6.5 ESTIMATES OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDER AND TYPE OF HOLDING DURING 1999/00(1992 E.C.)
BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA

Oromia

NUMBER IN THOUSANDS

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF HOLDERS ENGAGED						TOTAL NUMBER OF HOLDERS	%
	WITH CROP ONLY	%	WITH LIVESTOCK ONLY	%	WITH CROP & LIVESTOCK	%		
UNDER 18	*	*	-	-	19.49	.90	27.55	1.12
18 - 20	10.60	3.79	-	-	33.09	1.52	43.69	1.78
21 - 24	18.24	6.52	-	-	111.61	5.14	129.85	5.30
25 - 29	37.72	13.48	-	-	288.06	13.26	325.78	13.29
30 - 39	73.95	26.42	-	-	529.07	24.36	603.01	24.59
40 - 49	45.11	16.12	*	*	510.65	23.51	556.14	22.68
50 - 59	34.50	12.33	-	-	314.56	14.48	349.05	14.24
60 & ABOVE	51.70	18.47	-	-	365.23	16.82	416.93	17.00
NOT STATED	-	-	-	-	-	-	-	-
TOTAL	279.87	100.00	*	*	2,171.77	100.00	2,452.02	100.00

TABLE 6.6

ESTIMATES OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDER AND TYPE OF HOLDING DURING 1999/00(1992 E.C.)
BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA

Somale

NUMBER IN THOUSANDS

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF HOLDERS ENGAGED						TOTAL NUMBER OF HOLDERS	
	WITH CROP ONLY	%	WITH LIVESTOCK ONLY	%	WITH CROP & LIVESTOCK	%		%
UNDER 18	-	-	-	-	-	-	-	-
18 - 20	-	-	-	-	*	*	*	*
21 - 24	*	*	-	-	.70	2.58	.85	3.04
25 - 29	*	*	-	-	2.89	10.66	3.03	10.84
30 - 39	*	*	-	-	7.77	28.66	8.08	28.91
40 - 49	*	*	-	-	8.45	31.17	8.47	30.30
50 - 59	*	*	-	-	4.29	15.82	4.32	15.46
60 & ABOVE	*	*	-	-	2.69	9.92	2.88	10.30
NOT STATED	-	-	-	-	-	-	-	-
TOTAL	.84	100.00	-	-	27.11	100.00	27.95	100.00

TABLE 6.7 ESTIMATES OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDER AND TYPE OF HOLDING DURING 1999/00(1992 E.C.)
BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA

Benshangul-Gumuz

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF HOLDERS ENGAGED						NUMBER IN THOUSANDS	
	WITH CROP ONLY		WITH LIVESTOCK ONLY		WITH CROP & LIVESTOCK		TOTAL NUMBER OF HOLDERS	%
		%		%		%		
UNDER 18	-	-	-	-	-	-	-	-
18 - 20	*	*	-	-	.57	1.49	.68	1.65
21 - 24	.83	29.23	-	-	1.80	4.69	2.63	6.38
25 - 29	.50	17.61	-	-	5.97	15.56	6.47	15.70
30 - 39	.54	19.01	-	-	8.80	22.93	9.34	22.66
40 - 49	.28	9.86	-	-	10.09	26.30	10.37	25.16
50 - 59	*	*	-	-	6.59	17.17	6.74	16.35
60 & ABOVE	.43	15.14	-	-	4.55	11.86	4.98	12.08
NOT STATED	-	-	-	-	-	-	-	-
TOTAL	2.84	100.00	-	-	38.37	100.00	41.22	100.00

TABLE 6.8 ESTIMATES OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDER AND TYPE OF HOLDING DURING 1999/00(1992 E.C.)
BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA

(S.N.N.P.R)

NUMBER IN THOUSANDS

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF HOLDERS ENGAGED						TOTAL NUMBER OF HOLDERS	%
	WITH CROP ONLY	%	WITH LIVESTOCK ONLY	%	WITH CROP & LIVESTOCK	%		
UNDER 18	*	*	-	-	4.17	.27	5.24	.32
18 - 20	2.26	2.00	-	-	24.76	1.63	27.02	1.65
21 - 24	5.40	4.77	-	-	56.43	3.71	61.83	3.78
25 - 29	28.72	25.36	-	-	213.24	14.00	241.96	14.79
30 - 39	40.28	35.56	*	*	466.37	30.62	506.76	30.97
40 - 49	14.63	12.92	-	-	354.49	23.28	369.12	22.56
50 - 59	8.54	7.54	-	-	185.16	12.16	193.70	11.84
60 & ABOVE	12.36	10.91	-	-	218.36	14.34	230.73	14.10
NOT STATED	-	-	-	-	-	-	-	-
TOTAL	113.27	100.00	*	*	1,522.97	100.00	1,636.36	100.00

TABLE 6.9

ESTIMATES OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDER AND TYPE OF HOLDING DURING 1999/00(1992 E.C.)
BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA

Gambela

NUMBER IN THOUSANDS

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF HOLDERS ENGAGED						TOTAL NUMBER OF HOLDERS	
	WITH CROP ONLY	%	WITH LIVESTOCK ONLY	%	WITH CROP & LIVESTOCK	%		%
UNDER 18	*	*	-	-	.18	1.21	.22	.91
18 - 20	*	*	-	-	.15	1.01	.51	2.10
21 - 24	*	*	-	-	1.62	10.93	2.68	11.04
25 - 29	2.04	21.54	-	-	2.57	17.34	4.61	18.99
30 - 39	2.63	27.77	-	-	3.82	25.78	6.45	26.57
40 - 49	1.71	18.06	-	-	3.53	23.82	5.24	21.58
50 - 59	.84	8.87	-	-	1.78	12.01	2.62	10.79
60 & ABOVE	.79	8.34	-	-	1.16	7.83	1.95	8.03
NOT STATED	-	-	-	-	-	-	-	-
TOTAL	9.47	100.00	-	-	14.82	100.00	24.28	100.00

TABLE 6.10

ESTIMATES OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDER AND TYPE OF HOLDING DURING 1999/00(1992 E.C.)
BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA

Harari

NUMBER IN THOUSANDS

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF HOLDERS ENGAGED						TOTAL NUMBER OF HOLDERS	%
	WITH CROP ONLY	%	WITH LIVESTOCK ONLY	%	WITH CROP & LIVESTOCK	%		
UNDER 18	-	-	-	-	*	*	*	*
18 - 20	-	-	-	-	*	*	*	*
21 - 24	*	*	-	-	.40	4.66	.55	5.93
25 - 29	*	*	-	-	1.18	13.75	1.21	13.04
30 - 39	.21	30.00	-	-	2.39	27.86	2.61	28.13
40 - 49	*	*	-	-	1.89	22.03	2.06	22.20
50 - 59	*	*	-	-	1.76	20.51	1.83	19.72
60 & ABOVE	.07	10.00	-	-	.71	8.28	.77	8.30
NOT STATED	-	-	-	-	-	-	-	-
TOTAL	.70	100.00	-	-	8.58	100.00	9.28	100.00

TABLE 6.11

ESTIMATES OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDER AND TYPE OF HOLDING DURING 1999/00(1992 E.C.)
BELG CROP PRODUCTION SEASON FOR PRIVATE HOLDINGS IN ETHIOPIA

Dire Dawa

NUMBER IN THOUSANDS

AGE OF HOLDERS IN YEARS	TOTAL NUMBER OF HOLDERS ENGAGED						TOTAL NUMBER OF HOLDERS	%
	WITH CROP ONLY	%	WITH LIVESTOCK ONLY	%	WITH CROP & LIVESTOCK	%		
UNDER 18	-	-	-	-	*	*	*	*
18 - 20	-	-	-	-	-	-	-	-
21 - 24	-	-	-	-	*	*	*	*
25 - 29	*	*	-	-	.35	12.24	.38	12.97
30 - 39	-	-	-	-	.86	30.07	.86	29.35
40 - 49	-	-	-	-	.73	25.52	.73	24.91
50 - 59	.04	57.14	-	-	.48	16.78	.52	17.75
60 & ABOVE	-	-	-	-	.29	10.14	.29	9.90
NOT STATED	-	-	-	-	-	-	-	-
TOTAL	.07	100.00	-	-	2.86	100.00	2.93	100.00

TABLE 7 ESTIMATE OF TOTAL NUMBER OF HOLDERS REPORTING USE OF IMPROVED FARM MANAGEMENT PRACTICES BY AGE OF HOLDERS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

National

NUMBER IN THOUSANDS

AGE OF HOLDERS/ IN YEARS	NUMBER OF HOLDERS' REPORTING USE OF					
	IRRIGATION	IMPROVED SEEDS	NATURAL FERTILIZERS	COMMER. FERTILIZERS	BOTH NAT + COM	PESTICIDES
UNDER 18	*	*	*	*	-	*
18 - 20	2.14	.60	8.90	6.17	-	*
21 - 24	13.73	*	33.72	26.79	*	*
25 - 29	44.36	11.22	112.71	82.24	*	14.58
30 - 39	97.07	24.91	220.45	170.85	9.48	18.79
40 - 49	87.59	15.81	175.68	138.06	8.29	18.82
50 - 59	72.18	6.00	114.72	87.17	2.75	20.42
60 & ABOVE	59.68	*	143.37	80.42	6.17	20.63
NOT STATED	-	-	-	-	-	-
TOTAL	378.26	74.78	812.80	603.64	29.90	99.08

TABLE 7.1 ESTIMATE OF TOTAL NUMBER OF HOLDERS REPORTING USE OF IMPROVED FARM MANAGEMENT PRACTICES BY AGE OF HOLDERS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Tigray

NUMBER IN THOUSANDS

AGE OF HOLDERS/ IN YEARS	NUMBER OF HOLDERS' REPORTING USE OF					
	IRRIGATION	IMPROVED SEEDS	NATURAL FERTILIZERS	COMMER. FERTILIZERS	BOTH NAT + COM	PESTICIDES
UNDER 18	-	-	-	-	-	-
18 - 20	-	-	-	-	-	-
21 - 24	*	-	-	-	-	-
25 - 29	*	-	-	-	-	-
30 - 39	6.46	-	*	*	-	-
40 - 49	3.55	-	-	*	-	-
50 - 59	3.51	-	-	1.96	-	-
60 & ABOVE	4.37	-	*	.96	*	-
NOT STATED	-	-	-	-	-	-
TOTAL	19.02	-	*	*	*	-

TABLE 7.2 ESTIMATE OF TOTAL NUMBER OF HOLDERS REPORTING USE OF IMPROVED FARM MANAGEMENT PRACTICES BY AGE OF HOLDERS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Afar

NUMBER IN THOUSANDS

AGE OF HOLDERS' IN YEARS	NUMBER OF HOLDERS' REPORTING USE OF					
	IRRIGATION	IMPROVED SEEDS	NATURAL FERTILIZERS	COMMER. FERTILIZERS	BOTH NAT + COM	PESTICIDES
UNDER 18	-	-	-	-	-	-
18 - 20	-	-	-	-	-	-
21 - 24	-	-	-	-	-	-
25 - 29	*	-	-	-	-	-
30 - 39	.22	-	-	-	-	-
40 - 49	*	-	-	-	-	-
50 - 59	*	-	*	-	-	-
60 & ABOVE	*	-	*	-	-	-
NOT STATED	-	-	-	-	-	-
TOTAL	*	-	*	-	-	-

TABLE 7.3 ESTIMATE OF TOTAL NUMBER OF HOLDERS REPORTING USE OF IMPROVED FARM MANAGEMENT PRACTICES BY AGE OF HOLDERS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Amhara

NUMBER IN THOUSANDS

AGE OF HOLDERS/ IN YEARS	NUMBER OF HOLDERS' REPORTING USE OF					
	IRRIGATION	IMPROVED SEEDS	NATURAL FERTILIZERS	COMMER. FERTILIZERS	BOTH NAT + COM	PESTICIDES
UNDER 18	*	-	-	-	-	-
18 - 20	*	-	*	-	-	-
21 - 24	5.43	-	1.31	*	-	-
25 - 29	27.54	-	9.57	*	-	*
30 - 39	54.39	*	5.29	*	*	*
40 - 49	49.22	*	15.81	2.90	-	*
50 - 59	39.80	-	13.36	1.56	*	*
60 & ABOVE	32.65	*	15.98	-	*	.97
NOT STATED	-	-	-	-	-	-
TOTAL	210.44	*	61.70	8.31	*	3.88

TABLE 7.4 ESTIMATE OF TOTAL NUMBER OF HOLDERS REPORTING USE OF IMPROVED FARM MANAGEMENT PRACTICES BY AGE OF HOLDERS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Oromia

NUMBER IN THOUSANDS

AGE OF HOLDERS/ IN YEARS	NUMBER OF HOLDERS' REPORTING USE OF					
	IRRIGATION	IMPROVED SEEDS	NATURAL FERTILIZERS	COMMER. FERTILIZERS	BOTH NAT + COM	PESTICIDES
UNDER 18	*	*	*	*	-	*
18 - 20	1.56	-	2.66	4.64	-	*
21 - 24	7.89	-	13.18	21.50	*	*
25 - 29	13.80	*	32.60	43.21	*	12.50
30 - 39	32.86	*	73.27	92.69	3.79	16.87
40 - 49	31.65	*	59.80	65.89	3.68	17.24
50 - 59	26.92	*	30.98	62.88	*	19.13
60 & ABOVE	20.59	*	40.82	51.88	*	17.62
NOT STATED	-	-	-	-	-	-
TOTAL	135.80	*	256.06	352.63	13.20	89.13

TABLE 7.5 ESTIMATE OF TOTAL NUMBER OF HOLDERS REPORTING USE OF IMPROVED FARM MANAGEMENT PRACTICES BY AGE OF HOLDERS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Somale

NUMBER IN THOUSANDS

AGE OF HOLDERS/ IN YEARS	NUMBER OF HOLDERS' REPORTING USE OF					
	IRRIGATION	IMPROVED SEEDS	NATURAL FERTILIZERS	COMMER. FERTILIZERS	BOTH NAT + COM	PESTICIDES
UNDER 18	-	-	-	-	-	-
18 - 20	-	*	*	-	-	-
21 - 24	*	-	*	-	-	-
25 - 29	*	*	*	-	-	-
30 - 39	*	*	*	-	-	-
40 - 49	*	*	*	-	-	-
50 - 59	.08	*	*	.02	-	-
60 & ABOVE	*	*	*	-	-	-
NOT STATED	-	-	-	-	-	-
TOTAL	.87	.66	*	.02	-	-

TABLE 7.6 ESTIMATE OF TOTAL NUMBER OF HOLDERS REPORTING USE OF IMPROVED FARM MANAGEMENT PRACTICES BY AGE OF HOLDERS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Benshangul-Gumuz

NUMBER IN THOUSANDS

AGE OF HOLDERS' IN YEARS	NUMBER OF HOLDERS' REPORTING USE OF					
	IRRIGATION	IMPROVED SEEDS	NATURAL FERTILIZERS	COMMER. FERTILIZERS	BOTH NAT + COM	PESTICIDES
UNDER 18	-	-	-	-	-	-
18 - 20	*	-	*	-	-	-
21 - 24	-	*	*	-	-	-
25 - 29	*	*	.92	-	-	-
30 - 39	.56	-	1.28	.07	-	-
40 - 49	.81	-	.52	-	-	-
50 - 59	.62	-	.96	-	-	-
60 & ABOVE	.27	-	.70	-	-	-
NOT STATED	-	-	-	-	-	-
TOTAL	2.81	.11	4.62	.07	-	-

TABLE 7.7 ESTIMATE OF TOTAL NUMBER OF HOLDERS REPORTING USE OF IMPROVED FARM MANAGEMENT PRACTICES BY AGE OF HOLDERS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

(S.N.N.P.R)

NUMBER IN THOUSANDS

AGE OF HOLDERS' IN YEARS	NUMBER OF HOLDERS' REPORTING USE OF					
	IRRIGATION	IMPROVED SEEDS	NATURAL FERTILIZERS	COMMER. FERTILIZERS	BOTH NAT + COM	PESTICIDES
UNDER 18	-	*	*	*	-	-
18 - 20	*	*	5.47	*	-	-
21 - 24	*	*	18.45	4.80	*	*
25 - 29	*	5.76	68.18	37.66	*	1.19
30 - 39	*	12.03	136.70	73.77	*	1.18
40 - 49	*	8.19	97.53	67.06	*	*
50 - 59	*	3.74	67.77	20.68	1.56	*
60 & ABOVE	1.15	1.90	83.91	27.37	*	*
NOT STATED	-	-	-	-	-	-
TOTAL	5.48	32.94	478.48	234.88	13.61	5.49

TABLE 7.8 ESTIMATE OF TOTAL NUMBER OF HOLDERS REPORTING USE OF IMPROVED FARM MANAGEMENT PRACTICES BY AGE OF HOLDERS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Gambella

AGE OF HOLDERS' IN YEARS	NUMBER OF HOLDERS' REPORTING USE OF						NUMBER IN THOUSANDS
	IRRIGATION	IMPROVED SEEDS	NATURAL FERTILIZERS	COMMER. FERTILIZERS	BOTH NAT + COM	PESTICIDES	
UNDER 18	-	*	-	-	-	-	-
18 - 20	-	*	-	-	-	-	-
21 - 24	-	*	-	-	-	-	-
25 - 29	-	*	-	-	-	-	-
30 - 39	-	.57	-	-	*	-	*
40 - 49	-	*	-	-	-	-	*
50 - 59	-	.25	-	-	-	-	*
60 & ABOVE	-	.23	-	-	-	-	-
NOT STATED	-	-	-	-	-	-	-
TOTAL	-	1.80	-	-	*	-	*

TABLE 7.9 ESTIMATE OF TOTAL NUMBER OF HOLDERS REPORTING USE OF IMPROVED FARM MANAGEMENT PRACTICES BY AGE OF HOLDERS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Harari

NUMBER IN THOUSANDS

AGE OF HOLDERS' IN YEARS	NUMBER OF HOLDERS' REPORTING USE OF					
	IRRIGATION	IMPROVED SEEDS	NATURAL FERTILIZERS	COMMER. FERTILIZERS	BOTH NAT + COM	PESTICIDES
UNDER 18	-	-	-	-	-	-
18 - 20	*	-	*	-	-	-
21 - 24	-	-	.35	*	-	-
25 - 29	*	-	.58	*	*	*
30 - 39	.08	-	1.22	*	*	-
40 - 49	*	-	.96	.16	.40	-
50 - 59	*	*	.80	*	.27	-
60 & ABOVE	*	-	.25	*	*	-
NOT STATED	-	-	-	-	-	-
TOTAL	.43	*	4.30	.72	1.25	*

TABLE 7.10 ESTIMATE OF TOTAL NUMBER OF HOLDERS REPORTING USE OF IMPROVED FARM MANAGEMENT PRACTICES BY AGE OF HOLDERS FOR BELG SEASON CROPS OF PRIVATE HOLDINGS IN ETHIOPIA, 1999/00(1992 E.C.)

Dire Dawa

NUMBER IN THOUSANDS

AGE OF HOLDERS' IN YEARS	NUMBER OF HOLDERS' REPORTING USE OF					
	IRRIGATION	IMPROVED SEEDS	NATURAL FERTILIZERS	COMMER. FERTILIZERS	BOTH NAT + COM	PESTICIDES
UNDER 18	*	-	*	-	-	-
18 - 20	-	-	-	-	-	-
21 - 24	*	-	*	-	-	-
25 - 29	.27	-	.24	-	-	-
30 - 39	.74	*	.65	-	-	-
40 - 49	.56	*	.43	-	-	-
50 - 59	.36	-	.30	-	-	-
60 & ABOVE	.27	-	.23	*	*	-
NOT STATED	-	-	-	-	-	-
TOTAL	2.29	*	1.97	*	*	-

ESTIMATION PROCEDURES OF TOTAL AND SAMPLING ERRORS

The following formulae are used to estimate total area of land units, identifying crop areas, and a certain agricultural input was applied at a given season.

All information on Belg season agricultural activities were collected through interviews and by interviewing each holder in the sample of agricultural households. These interviews were for many Belg season crops were usually reported in local units. Therefore, it is to note that before applying the estimation procedures defined here below, the reported values in specific crop while a certain agricultural input was applied has to be converted in standard units using conversion coefficients.

APPENDIX – I

Estimating Area

ESTIMATION PROCEDURES OF TOTAL AND SAMPLING ERROR

is the weight

represents the estimate

is the total number of EA's selected in A^* stratum.

is the measure of size of the A^* stratum obtained from the sampling frame.

is the measure of size of the i^* sample EA in the A^* stratum obtained from the sampling frame.

ESTIMATION PROCEDURES OF TOTAL AND SAMPLING ERRORS

The following formula are used to estimate total area of land under specific crop where a certain agricultural input was applied in a given stratum.

Note:- All information on Belg season agricultural activities were collected using subjective methods, by interviewing each holder in the sample 25 agricultural households. Hence the data on area for major Belg season crops were usually reported in local units. Therefore one has to note that before applying the estimation procedures defined here below, the reported area under a specific crop where a certain agricultural input was applied has to be converted in to standard units using conversion equivalents.

1. Estimating Area

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

in which

$$W_{hi} = \frac{N_h M_{hi}}{n_h N_{hi} m_{hi}}$$

is the weight

where

h represents the stratum

n_h is the total number of EAs selected in h^{th} stratum.

N_h is the measure of size of the h^{th} stratum obtained from the sampling frame.

N_{ih} is the measure of size of the i^{th} sample EA in the h^{th} stratum obtained from the sampling frame.

M_{hi} is the total number of agricultural households of the i^{th} sample EA in the h^{th} stratum obtained from households listing of the survey

m_{hi} is number of sampled agricultural households of the i^{th} EA in the h^{th} stratum.

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

\hat{A}_h is estimate of total area under specific crop where a certain agricultural input was used in the h^{th} stratum.

2. To estimate Quantity of Fertilizer

$$\hat{Q}_h = \sum_{i=1}^{n_h} W_{hi} q_{hi}$$

in which

$$W_{hi} = \frac{N_h M_{hi}}{n_h N_{hi} m_{hi}}$$

is the weight given above.

Where

\hat{Q}_h is estimate of total quantity of a specific fertilizer applied for a specific crop land in the h^{th} stratum.

q_{hi} is the sample total of quantity of a specific fertilizer applied for a specific crop land in the i^{th} EA in the h^{th} stratum.

3. Estimating Sampling Variance

Sampling Variance of estimate of stratum total of area for a specific crop where a certain agricultural input used and quantity of a certain fertilizer are estimated by the following formulas respectively.

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

In estimating 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 procedures. Further more the finite population correction (fpc) is ignored in the formula. This is due to the fact that its effect is negligible

4. Estimation Coefficient of Variance

Coefficient of Variation (CV) of estimate of stratum total area and quantity are given by:

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

$$CV(\hat{Q}_h) = \frac{\sqrt{\text{VAR}(\hat{Q}_h)}}{\hat{Q}_h} \times 100\%$$

Regional or national estimates of the total characteristics and sampling variance are obtained by aggregating the respective stratum totals.

APPENDIX - II

STANDARD ERROR AND COEFFICIENT OF VARIATION FOR ESTIMATES

Sl. No.	Estimate	Standard Error	Coefficient of Variation
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TABLE 1

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

National

TYPE OF CROPS	AREA UNDER FARM MANAGEMENT PRACTICES														
	TOTAL BELG CROP AREA			IRRIGATED			IMPROVED SEEDS			FERTILIZER APPLIED			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	455.46	47.98	10.53	17.26	2.74	15.90	13.14	4.78	36.38	132.11	18.35	13.89	14.76	3.90	26.43
Teff	17.84	4.31	24.14	*	*	*	*	*	*	2.83	.76	27.05	1.50	.60	40.19
Barley	172.80	30.87	17.87	1.55	.65	42.22	.05	.01	17.15	59.44	11.69	19.66	7.78	2.34	30.06
Wheat	63.97	18.71	29.24	1.00	.42	42.21	*	*	*	24.82	8.31	33.49	*	*	*
Maize	173.56	21.93	12.64	12.91	2.54	19.67	11.51	4.76	41.36	40.40	10.20	25.24	.58	.23	39.20
Sorghum	14.82	4.50	30.32	.01	-	45.54	*	*	*	2.15	.76	35.56	-	-	-
Millet	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Oats	11.57	2.92	25.22	*	*	*	-	-	-	2.36	.83	35.19	*	*	*
PULSES	174.63	21.57	12.35	.90	.40	44.78	*	*	*	75.35	15.06	19.99	1.12	.49	44.23
Horse Beans	7.11	3.04	42.81	-	-	-	-	-	-	*	*	*	-	-	-
Field Peas	11.30	3.66	32.39	*	*	*	-	-	-	.27	.13	46.73	-	-	-
Haricot Bean	150.14	20.28	13.51	.27	.12	44.59	*	*	*	73.65	14.62	19.85	1.12	.49	44.35
Chick Peas	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
Lentils	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
Vetch	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
OTHERS	2.12	.96	45.49	*	*	*	-	-	-	*	*	*	-	-	-
Neug	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
ALL CROPS	632.21	56.07	8.87	18.33	2.77	15.12	16.08	6.48	40.30	207.46	23.75	11.45	15.88	3.97	24.99

TABLE 1.1

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Tigray

TYPE OF CROPS	AREA UNDER FARM MANAGEMENT PRACTICES														
	TOTAL BELG CROP AREA			IRRIGATED			IMPROVED SEEDS			FERTILIZER APPLIRD			PESTICIDE		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	.93	.40	42.66	*	*	*	-	-	-	*	*	*	-	-	-
Teff	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Barley	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Wheat	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
Maize	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.93	.40	42.32	*	*	*	-	-	-	*	*	*	-	-	-

TABLE 1.2

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Afar

TYPE OF CROPS	AREA UNDER FARM MANAGEMENT PRACTICES														
	TOTAL BELG CROP AREA			IRRIGATED			IMPROVED SEEDS			FERTILIZER APPLIRD			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1.3

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Amhara

TYPE OF CROPS	AREA UNDER FARM MANAGEMENT PRACTICES														
	TOTAL BELG CROP AREA			IRRIGATED			IMPROVED SEEDS			FERTILIZER APPLIED			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	*	*	*	6.42	1.82	28.25	*	*	*	2.21	.63	28.71	*	*	*
Teff	2.06	.83	40.49	*	*	*	-	-	-	*	*	*	*	*	*
Barley	*	*	*	*	*	*	-	-	-	.77	.25	33.31	-	-	-
Wheat	1.06	.46	43.75	.92	.41	45.11	*	*	*	*	*	*	-	-	-
Maize	3.07	1.34	43.51	2.74	1.25	45.70	-	-	-	*	*	*	*	*	*
Sorghum	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	.52	.23	43.24	*	*	*	-	-	-	.05	.02	33.13	-	-	-
PULSES	.98	.42	42.62	*	*	*	-	-	-	*	*	*	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Haricot Bean	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Chick Peas	.25	.12	49.58	*	*	*	-	-	-	*	*	*	-	-	-
Lentils	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
Vetch	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
ALL CROPS	*	*	*	7.27	1.86	25.51	*	*	*	2.26	.64	28.16	*	*	*

TABLE 1.4

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Oromia

TYPE OF CROPS	AREA UNDER FARM MANAGEMENT PRACTICES														
	TOTAL BELG CROP AREA			IRRIGATED			IMPROVED SEEDS			FERTILIZER APPLIRD			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	287.04	34.87	12.15	8.53	1.82	21.39	9.79	4.68	47.78	90.56	13.49	14.90	13.92	3.89	27.98
Teff	13.56	4.17	30.77	-	-	-	*	*	*	1.50	.63	41.79	*	*	*
Barley	103.52	13.90	13.42	*	*	*	*	*	*	46.11	7.90	17.13	7.58	2.34	30.83
Wheat	62.01	18.70	30.16	-	-	-	*	*	*	24.21	8.31	34.32	*	*	*
Maize	92.58	15.25	16.47	8.01	1.99	24.88	*	*	*	16.16	5.04	31.18	*	*	*
Sorghum	*	*	*	-	-	-	*	*	*	*	*	*	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	11.04	2.91	26.34	*	*	*	-	-	-	2.31	.83	35.93	*	*	*
PULSES	60.28	9.86	16.35	*	*	*	*	*	*	9.87	2.20	22.27	*	*	*
Horse Beans	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Field Peas	11.00	3.66	33.27	-	-	-	-	-	-	.27	.13	47.37	-	-	-
Haricot Bean	38.38	7.58	19.74	*	*	*	*	*	*	9.18	2.17	23.64	*	*	*
Chick Peas	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Vetch	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
OTHERS	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Neug	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	349.17	40.89	11.71	8.66	1.82	21.05	*	*	*	100.43	13.78	13.72	14.15	3.94	27.82

TABLE 1.5

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Somale

TYPE OF CROPS	AREA UNDER FARM MANAGEMENT PRACTICES														
	TOTAL BELG CROP AREA			IRRIGATED			IMPROVED SEEDS			FERTILIZER APPLIED			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	7.76	2.60	33.55	*	*	*	*	*	*	*	*	*	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Maize	7.54	2.49	33.01	*	*	*	*	*	*	*	*	*	-	-	-
Sorghum	*	*	*	-	-	-	*	*	*	*	*	*	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.09	.04	46.14	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	.09	.04	46.14	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	7.85	2.62	33.32	*	*	*	*	*	*	*	*	*	-	-	-

TABLE 1.6

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Benshangul-Gumuz

TYPE OF CROPS	AREA UNDER FARM MANAGEMENT PRACTICES														
	TOTAL BELG CROP AREA			IRRIGATED			IMPROVED SEEDS			FERTILIZER APPLIED			PESTICIDE		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	.16	.07	41.29	*	*	*	-	-	-	*	*	*	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.16	.07	42.51	*	*	*	-	-	-	*	*	*	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.54	.13	24.31	*	*	*	-	-	-	.03	.01	43.21	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	.54	.13	24.31	*	*	*	-	-	-	.03	.01	43.21	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.70	.14	20.28	*	*	*	-	-	-	.05	.02	33.92	-	-	-

TABLE 1.7

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

(S.N.N.P.R)

TYPE OF CROPS	AREA UNDER FARM MANAGEMENT PRACTICES														
	TOTAL BELG CROP AREA			IRRIGATED			IMPROVED SEEDS			FERTILIZER APPLIRD			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	120.76	24.00	19.88	.60	.06	9.60	2.95	.98	33.24	38.66	12.42	32.12	.47	.15	31.70
Teff	2.19	.65	29.82	-	-	-	-	-	-	.95	.40	41.78	*	*	*
Barley	41.37	15.99	38.65	-	-	-	*	*	*	*	*	*	*	*	*
Wheat	.48	.19	40.07	-	-	-	*	*	*	*	*	*	-	-	-
Maize	66.81	15.47	23.16	.59	.06	9.80	2.79	.98	35.03	22.84	8.85	38.74	*	*	*
Sorghum	9.01	3.33	36.92	-	-	-	.13	.05	38.43	1.87	.72	38.73	-	-	-
Millet	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	112.68	19.18	17.02	*	*	*	*	*	*	65.38	14.90	22.79	.88	.44	49.44
Horse Beans	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Field Peas	.17	.08	45.21	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	111.02	18.81	16.94	*	*	*	*	*	*	64.41	14.46	22.45	.88	.44	49.44
Chick Peas	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	233.44	31.02	13.29	.68	.10	14.28	3.92	1.29	32.97	104.04	19.33	18.58	1.35	.46	33.80

TABLE 1.8

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Gambela

TYPE OF CROPS	AREA UNDER FARM MANAGEMENT PRACTICES														
	TOTAL BELG CROP AREA			IRRIGATED			IMPROVED SEEDS			FERTILIZER APPLIRD			PESTICIDE		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	3.03	1.05	34.60	-	-	-	.32	.13	40.81	-	-	-	*	*	*
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	2.82	.97	34.50	-	-	-	.32	.13	40.81	-	-	-	*	*	*
Sorghum	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Millet	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	3.04	1.05	34.46	-	-	-	.32	.13	40.81	-	-	-	*	*	*

TABLE 1.10

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Harari

TYPE OF CROPS	AREA UNDER FARM MANAGEMENT PRACTICES														
	TOTAL BELG CROP AREA			IRRIGATED			IMPROVED SEEDS			FERTILIZER APPLIRD			PESTICIDE		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.04	.01	15.74	-	-	-	-	-	-	.03	.01	19.33	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	.04	.01	15.74	-	-	-	-	-	-	.03	.01	19.33	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.04	.01	15.47	-	-	-	-	-	-	.03	.01	19.24	-	-	-

TABLE 1.11

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Dire Dawa

TYPE OF CROPS	AREA UNDER FARM MANAGEMENT PRACTICES														
	TOTAL BELG CROP AREA			IRRIGATED			IMPROVED SEEDS			FERTILIZER APPLIRD			PESTICIDE		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	.04	.01	17.48	.03	.01	23.76	-	-	-	.03	.01	26.32	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.03	.01	29.86	.02	.01	31.87	-	-	-	.02	.01	31.85	-	-	-
Sorghum	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.05	.01	16.47	.03	.01	24.01	-	-	-	.03	.01	25.94	-	-	-

TABLE 2

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

National

TYPE OF CROPS	TOTAL (COMM+NAT)			NATURAL			COMMERCIAL			AP			UREA			DAP+UREA			BOTH(NAT+COMM)		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	132.11	18.35	13.89	49.39	10.26	20.78	79.54	14.67	18.45	72.14	13.76	19.08	5.47	1.72	31.40	1.93	.57	29.28	3.18	1.19	37.32
Teff	2.83	.76	27.05	.51	.25	48.73	2.31	.72	31.34	1.64	.53	32.54	*	*	*	*	*	*	-	-	-
Barley	59.44	11.69	19.66	22.02	8.97	40.72	35.74	6.89	19.28	33.43	6.23	18.64	*	*	*	1.11	.44	39.59	1.69	.80	47.68
Wheat	24.82	8.31	33.49	2.02	.89	44.00	22.57	8.16	36.17	21.43	7.91	36.88	1.06	.46	43.29	*	*	*	.22	.06	25.33
Maize	40.40	10.20	25.24	22.68	4.97	21.90	*	*	*	*	*	*	2.65	1.32	49.67	*	*	*	*	*	*
Sorghum	2.15	.76	35.56	1.81	.71	39.22	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*
Millet	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*
Oats	2.36	.83	35.19	.24	.09	38.81	2.09	.80	38.35	2.09	.77	37.01	-	-	-	-	-	-	*	*	*
PULSES	75.35	15.06	19.99	52.61	13.13	24.96	22.17	6.76	30.48	20.11	6.65	33.07	.84	.30	35.34	1.21	.36	29.88	.57	.28	48.65
Horse Beans	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	.27	.13	46.73	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Haricot Beans	73.65	14.62	19.85	51.31	12.58	24.53	21.77	6.75	30.99	19.72	6.64	33.68	.84	.30	35.34	1.21	.36	29.88	.57	.28	48.65
Chick Peas	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Vetch	*	*	*	-	-	-	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	207.46	23.75	11.45	102.00	17.02	16.69	101.70	16.11	15.84	92.25	15.22	16.50	6.31	1.84	29.22	3.14	.68	21.79	3.75	1.36	36.26

TABLE 2.1

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Tigray

TYPE OF CROPS	TOTAL (COMM+NAT)			NATURAL			COMMERCIAL			AP			UREA			DAP+UREA			BOTH(NAT+COMM)		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Maize	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-

TABLE 2.2

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Amhara

TYPE OF CROPS	TOTAL (COMM+NAT)			NATURAL			COMMERCIAL			AP			UREA			DAP+UREA			BOTH(NAT+COMM)		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	2.21	.63	28.71	1.60	.44	27.82	.50	.18	36.14	.29	.14	49.04	*	*	*	.15	.01	8.19	*	*	*
Teff	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Barley	.77	.25	33.31	.41	.15	36.16	.29	.14	49.41	.29	.14	49.41	-	-	-	-	-	-	*	*	*
Wheat	*	*	*	.14	.06	45.21	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
Maize	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	*	*	*
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	.05	.02	33.13	.05	.02	33.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	2.26	.64	28.16	1.65	.45	27.23	.50	.18	36.14	.29	.14	49.04	*	*	*	.15	.01	8.19	*	*	*

TABLE 2.3

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Oromia

TYPE OF CROPS	TOTAL (COMM+NAT)			NATURAL			COMMERCIAL			AP			UREA			DAP+UREA			BOTH(NAT+COMM)		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	90.56	13.49	14.90	23.62	4.72	19.97	64.90	12.12	18.68	60.09	11.42	19.01	3.99	1.54	38.57	.82	.40	48.54	2.04	.79	38.92
Teff	1.50	.63	41.79	*	*	*	1.46	.62	42.55	.92	.39	42.91	*	*	*	.01	-	12.78	-	-	-
Barley	46.11	7.90	17.13	9.53	2.57	26.96	34.99	6.88	19.68	32.99	6.23	18.89	*	*	*	.80	.40	49.33	*	*	*
Wheat	24.21	8.31	34.32	*	*	*	22.42	8.16	36.41	21.43	7.91	36.89	.99	.46	46.13	-	-	-	.22	.06	25.59
Maize	16.16	5.04	31.18	12.26	4.04	32.90	*	*	*	*	*	*	*	*	*	-	-	-	.19	.05	24.61
Sorghum	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	2.31	.83	35.93	.19	.09	47.99	2.09	.80	38.35	2.09	.77	37.02	-	-	-	-	-	-	*	*	*
PULSES	9.87	2.20	22.27	6.66	1.54	23.16	2.97	1.12	37.62	2.43	1.11	45.64	*	*	*	.20	.07	35.48	*	*	*
Horse Beans	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	.27	.13	47.37	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Haricot Beans	9.18	2.17	23.64	6.37	1.54	24.15	2.58	1.07	41.32	*	*	*	*	*	*	.20	.07	35.48	*	*	*
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	-	-	-	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Vetch	*	*	*	-	-	-	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	100.43	13.78	13.72	30.28	5.11	16.88	67.87	12.26	18.06	62.53	11.57	18.50	4.33	1.67	38.67	1.02	.35	34.47	2.28	1.00	44.01

TABLE 2.4

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Somale

TYPE OF CROPS	TOTAL (COMM+NAT)			NATURAL			COMMERCIAL			AP			UREA			DAP+UREA			BOTH(NAT+COMM)		
	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)
CEREALS	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 2.5

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Benshangul-Gumuz

TYPE OF CROPS	TOTAL (COMM+NAT)			NATURAL			COMMERCIAL			AP			UREA			DAP+UREA			BOTH(NAT+COMM)		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.03	.01	43.21	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.03	.01	43.21	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.05	.02	33.92	.05	.02	37.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 2.6

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

(S.N.N.P.R)

TYPE OF CROPS	TOTAL (COMM+NAT)			NATURAL			COMMERCIAL			AP			UREA			DAP+UREA			BOTH(NAT+COMM)		
	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E. (^{'000})	C.V. (%)
CEREALS	38.66	12.42	32.12	23.81	9.10	38.23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Teff	.95	.40	41.78	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Barley	*	*	*	*	*	*	.77	.36	47.18	.72	.36	49.87	.04	.02	44.97	*	*	*	*	*	*
Wheat	*	*	*	*	*	*	.46	.23	48.76	.15	.06	39.19	-	-	-	*	*	*	*	*	*
Maize	22.84	8.85	38.74	9.37	2.86	30.53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sorghum	1.87	.72	38.73	1.78	.71	40.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Millet	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	65.38	14.90	22.79	45.86	13.04	28.43	19.18	6.66	34.73	17.67	6.56	37.10	.51	.23	45.41	1.00	.35	35.28	.33	.15	45.21
Horse Beans	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	64.41	14.46	22.45	44.90	12.49	27.82	19.18	6.66	34.73	17.67	6.56	37.10	.51	.23	45.41	1.00	.35	35.28	.33	.15	45.21
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	104.04	19.33	18.58	69.68	16.23	23.29	33.00	10.44	31.64	29.43	9.89	33.60	1.92	.77	40.46	1.66	.55	33.42	*	*	*

TABLE 2.7

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Harari

TYPE OF CROPS	TOTAL (COMM+NAT)			NATURAL			COMMERCIAL			AP			UREA			DAP+UREA			BOTH(NAT+COMM)		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.03	.01	19.33	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.03	.01	19.33	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.03	.01	19.24	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*

TABLE 2.8

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Dire Dawa

TYPE OF CROPS	TOTAL (COMM+NAT)			NATURAL			COMMERCIAL			AP			UREA			DAP+UREA			BOTH(NAT+COMM)		
	Estimate ('000HA)	S.E. ('000)	C.V. (%)	Estimate ('000HA)	S.E. ('000)	C.V. (%)	Estimate ('000HA)	S.E. ('000)	C.V. (%)	Estimate ('000HA)	S.E. ('000)	C.V. (%)	Estimate ('000HA)	S.E. ('000)	C.V. (%)	Estimate ('000HA)	S.E. ('000)	C.V. (%)	Estimate ('000HA)	S.E. ('000)	C.V. (%)
CEREALS	.03	.01	26.32	.02	.01	25.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.02	.01	31.85	.02	.01	31.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.03	.01	25.94	.03	.01	25.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 3

ESTIMATES QUANTITY OF COOMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZERS
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

National

TYPE OF CROPS	TYPE OF FERTILIZER											
	TOTAL QUANTITY			UREA			DAP			DAP + UREA		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	67.15	11.83	17.62	4.16	1.53	36.91	59.23	11.36	19.19	3.77	1.07	28.34
Teff	1.25	.33	26.75	*	*	*	.86	.26	29.77	*	*	*
Barley	36.78	8.15	22.16	*	*	*	33.39	7.65	22.90	*	*	*
Wheat	17.60	6.32	35.92	*	*	*	16.41	6.30	38.41	*	*	*
Maize	9.88	3.59	36.38	*	*	*	6.92	2.90	41.94	*	*	*
Sorghum	*	*	*	-	-	-	*	*	*	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	1.57	.61	38.48	-	-	-	1.57	.61	38.48	-	-	-
PULSES	9.54	1.88	19.71	.64	.24	37.62	8.47	1.82	21.53	.43	.09	20.91
Horse Beans	*	*	*	-	-	-	-	-	-	*	*	*
Field Peas	*	*	*	-	-	-	*	*	*	-	-	-
Haricot Beans	9.44	1.88	19.91	.64	.24	37.62	8.40	1.82	21.72	.40	.09	21.33
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	-	-	-	*	*	*	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	76.69	11.87	15.48	4.80	1.54	32.20	67.70	11.43	16.89	4.20	1.06	25.26

TABLE 3.1

ESTIMATES QUANTITY OF COOMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZERS
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

TYPE OF CROPS	Tigray											
	TYPE OF FERTILIZER											
	TOTAL QUANTITY			UREA			DAP			DAP + UREA		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	1.69	.69	40.83	*	*	*	*	*	*	1.62	.52	32.19
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barley	*	*	*	-	-	-	-	-	-	-	-	-
Wheat	*	*	*	-	-	-	-	-	-	*	*	*
Maize	*	*	*	*	*	*	-	-	-	*	*	*
Sorghum	-	-	-	*	*	*	*	*	*	*	*	*
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	-	-	-	-	-	-	*	*	*
Horse Beans	*	*	*	-	-	-	-	-	-	*	*	*
Field Peas	-	-	-	-	-	-	-	-	-	*	*	*
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	1.71	.70	40.85	*	*	*	*	*	*	1.65	.53	32.15

TABLE 3.2

ESTIMATES QUANTITY OF COOMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZERS
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Amhara

TYPE OF CROPS	TYPE OF FERTILIZER											
	TOTAL QUANTITY			UREA			DAP			DAP + UREA		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	1.44	.60	41.42	*	*	*	*	*	*	.32	.09	27.54
Teff	*	*	*	-	-	-	-	-	-	*	*	*
Barley	*	*	*	-	-	-	*	*	*	-	-	-
Wheat	*	*	*	*	*	*	-	-	-	*	*	*
Maize	*	*	*	*	*	*	*	*	*	*	*	*
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	1.44	.60	41.42	*	*	*	*	*	*	.32	.09	27.54

TABLE 3.3

ESTIMATES QUANTITY OF COOMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZERS
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Oromia

TYPE OF CROPS	TYPE OF FERTILIZER											
	TOTAL QUANTITY			UREA			DAP			DAP + UREA		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	56.67	11.31	19.95	2.70	1.32	48.94	52.60	11.02	20.95	*	*	*
Teff	.58	.21	35.84	*	*	*	.49	.21	42.11	*	*	*
Barley	34.75	8.11	23.35	*	*	*	32.02	7.62	23.81	*	*	*
Wheat	17.41	6.32	36.31	*	*	*	16.41	6.30	38.41	-	-	-
Maize	2.29	1.05	45.73	*	*	*	*	*	*	-	-	-
Sorghum	*	*	*	-	-	-	*	*	*	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	1.57	.61	38.49	-	-	-	1.57	.61	38.49	-	-	-
PULSES	1.54	.47	30.63	*	*	*	1.13	.45	39.82	*	*	*
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	*	*	*	-	-	-	*	*	*	-	-	-
Haricot Beans	1.47	.47	32.03	*	*	*	1.06	.45	42.38	*	*	*
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	-	-	-	*	*	*	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	58.21	11.25	19.33	3.00	1.33	44.32	53.73	10.99	20.45	*	*	*

TABLE 3.4

ESTIMATES QUANTITY OF COOMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZERS
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Somale

TYPE OF CROPS	TYPE OF FERTILIZER											
	TOTAL QUANTITY			UREA			DAP			DAP + UREA		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	*	*	*	*	*	*	*	*	*	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	*	*	*	*	*	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	*	*	*	*	*	*	-	-	-

TABLE 3.5

ESTIMATES QUANTITY OF COOMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZERS
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Benshangul-Gumuz

TYPE OF CROPS	TYPE OF FERTILIZER											
	TOTAL QUANTITY			UREA			DAP			DAP + UREA		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	-	-	-	*	*	*	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	*	*	*	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	*	*	*	*	*	*	*	*	*
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	*	*	*	*	*	*	*	*	*	*	*	*
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	*	*	*	*	*	*	*	*	*

TABLE 3.6

ESTIMATES QUANTITY OF COOMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZERS
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

(S.N.N.P.R)

TYPE OF CROPS	TYPE OF FERTILIZER											
	TOTAL QUANTITY			UREA			DAP			DAP + UREA		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	7.33	3.37	45.90	*	*	*	5.48	2.72	49.57	.46	.13	28.93
Teff	.55	.24	43.63	*	*	*	.37	.15	40.79	*	*	*
Barley	.48	.17	35.44	-	-	-	.28	.12	41.31	*	*	*
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	*	*	*	*	*	.21	.09	42.00
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	7.78	1.82	23.38	*	*	*	7.30	1.77	24.20	.21	.05	24.96
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	7.78	1.82	23.38	*	*	*	7.30	1.77	24.20	.21	.05	24.96
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	15.11	3.66	24.22	1.66	.79	47.34	12.78	3.09	24.17	.67	.12	17.42

TABLE 3.7

ESTIMATES QUANTITY OF COOMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZERS
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Gambela

TYPE OF CROPS	TYPE OF FERTILIZER											
	TOTAL QUANTITY			UREA			DAP			DAP + UREA		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	*	*	*	-	-	-	*	*	*	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	*	*	*	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	-	-	-	*	*	*	-	-	-

TABLE 3.8

ESTIMATES QUANTITY OF COOMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZERS
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Harari

TYPE OF CROPS	TYPE OF HOLDING											
	TOTAL QUANTITY			UREA			DAP			DAP + UREA		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.19	.04	22.13	.07	.02	26.80	*	*	*	.08	.04	44.21
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.19	.04	22.13	.07	.02	26.80	*	*	*	.08	.04	44.21
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.19	.04	22.13	.07	.02	26.80	*	*	*	.08	.04	44.21

TABLE 3.9

ESTIMATES QUANTITY OF COOMERCIAL FERTILIZER APPLIED BY TYPE OF FERTILIZERS
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Dire Dawa

TYPE OF CROPS	TYPE OF HOLDING											
	TOTAL QUANTITY			UREA			DAP			DAP + UREA		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
CEREALS	*	*	*	*	*	*	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	*	*	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	*	*	*	-	-	-	-	-	-

TABLE 4

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

National

TYPE OF CROPS	UNDER 0.10			0.10-0.50			0.51-1.00			1.01-2.0			2.01-5.00			5.01-10.00			10.01 & ABOVE		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	67.37	4.34	6.45	228.51	23.52	10.29	103.85	14.55	14.01	37.48	9.54	25.45	5.14	2.18	42.41	*	*	*	*	*	*
Teff	3.72	.82	21.99	9.50	2.78	29.28	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
Barley	25.98	3.03	11.65	95.77	14.71	15.36	30.77	7.86	25.56	6.77	1.86	27.41	1.12	-	-	-	-	-	*	*	*
Wheat	4.47	.94	20.98	27.82	7.47	26.85	25.62	9.38	36.63	6.07	2.03	33.38	-	-	-	-	-	-	-	-	-
Maize	28.05	2.66	9.47	79.98	9.53	11.92	42.02	8.76	20.84	21.52	8.15	37.85	1.25	.53	42.68	*	*	*	*	*	*
Sorghum	2.04	.36	17.71	6.79	2.25	33.15	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
Millet	.32	.12	38.03	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Oats	2.79	.63	22.49	8.52	2.39	28.06	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	38.98	3.84	9.86	82.58	11.90	14.40	31.88	6.32	19.83	13.29	3.75	28.23	*	*	*	-	-	-	*	*	*
Horse Beans	1.95	.76	38.71	*	*	*	-	-	-	-	-	-	.84	.25	29.12	-	-	-	-	-	-
Field Peas	2.14	.48	22.26	5.65	1.62	28.65	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Haricot Bean	33.78	3.69	10.92	68.63	10.32	15.04	28.29	6.03	21.30	12.38	3.66	29.53	1.60	.25	15.36	-	-	-	*	*	*
Chick Peas	.26	.12	48.24	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	.53	.25	46.56	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	.21	.10	48.83	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	106.79	5.94	5.57	312.58	28.79	9.21	135.92	15.78	11.61	50.77	9.13	17.98	7.58	2.18	28.74	*	*	*	*	*	*

TABLE 4.1

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Tigray

TYPE OF CROPS	UNDER 0.10			0.10-0.50			0.51-1.00			1.01-2.0		2.01-5.00		5.01-10.00		10.01 & ABOVE	
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	C.V. (%)	Estimate (^{'000} HA)	C.V. (%)	Estimate (^{'000} HA)	C.V. (%)	Estimate (^{'000} HA)	C.V. (%)
CEREALS	.04	.01	24.06	.51	.21	40.37	.38	.07	19.20	-	-	-	-	-	-	-	-
Teff	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	*	*	*	*	*	*	-	-	-	-	-	-	-	-
Maize	.02	.01	40.13	*	*	*	*	*	*	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.05	.01	22.83	.51	.21	40.37	.38	.07	19.20	-	-	-	-	-	-	-	-

TABLE 4.2

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

TYPE OF CROPS	UNDER 0.10			0.10-0.50			0.51-1.00			1.01-2.0			2.01-5.00			5.01-10.00			10.01 & ABOVE			
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	
CEREALS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.3

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Amhara																				
TYPE OF CROPS	UNDER 0.10			0.10-0.50			0.51-1.00			1.01-2.0			2.01-5.00			5.01-10.00		10.01 & ABOVE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	8.62	1.34	15.57	6.29	1.97	31.32	4.50	.02	.36	2.81	.02	.67	*	*	*	-	-	*	*	*
Teff	1.74	.64	36.83	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	3.54	.85	24.04	*	*	*	4.50	.02	.36	2.81	.02	.67	*	*	*	-	-	*	*	*
Wheat	.68	.24	35.91	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	2.04	.70	34.37	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	.52	.23	43.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.93	.39	42.34	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	.25	.12	49.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	9.72	1.43	14.71	6.43	1.96	30.39	4.50	.02	.36	2.81	.02	.67	*	*	*	-	-	*	*	*

TABLE 4.4

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Gromia

TYPE OF CROPS	UNDER 0.10			0.10-0.50			0.51-1.00			1.01-2.0			2.01-5.00			5.01-10.00			10.01 & ABOVE		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	40.43	3.67	9.08	157.70	19.80	12.56	68.88	11.98	17.40	18.98	6.56	34.55	*	*	*	-	-	-	-	-	-
Teff	.96	.44	45.70	7.99	2.75	34.41	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
Barley	18.72	2.61	13.94	66.64	9.57	14.36	16.10	3.79	23.52	*	*	*	-	-	-	-	-	-	-	-	-
Wheat	3.58	.90	25.21	26.90	7.52	27.97	25.47	9.40	36.90	6.07	2.03	33.38	-	-	-	-	-	-	-	-	-
Maize	14.77	2.31	15.63	45.76	7.40	16.17	23.68	7.07	29.87	*	*	*	*	*	*	-	-	-	-	-	-
Sorghum	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	2.27	.59	25.82	8.52	2.42	28.36	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	14.79	1.77	11.98	26.64	5.81	21.80	8.49	2.53	29.79	2.47	1.18	47.76	*	*	*	-	-	-	*	*	*
Horse Beans	1.59	.74	46.66	*	*	*	-	-	-	-	-	-	.84	.18	21.18	-	-	-	-	-	-
Field Peas	1.85	.46	25.03	5.64	1.62	28.77	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Haricot Bean	11.00	1.46	13.26	13.86	3.23	23.30	4.90	1.66	33.90	*	*	*	1.60	.18	11.17	-	-	-	*	*	*
Chick Peas	-	-	-	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	55.48	4.30	7.75	185.73	23.87	12.85	77.56	12.45	16.05	21.45	6.26	29.19	3.49	1.05	30.03	-	-	-	*	*	*

TABLE 4.5

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Somale

TYPE OF CROPS	UNDER 0.10			0.10-0.50			0.51-1.00			1.01-2.0			2.01-5.00			5.01-10.00			10.01 & ABOVE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	.53	.14	26.97	2.52	.74	29.47	2.32	.88	37.78	*	*	*	.65	.01	1.01	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.50	.14	28.90	2.38	.71	29.67	2.27	.85	37.56	*	*	*	.65	.01	1.01	-	-	-	-	-	-
Sorghum	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.04	.02	47.09	.05	.02	47.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	.04	.02	47.09	.05	.02	47.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.56	.14	25.22	2.57	.76	29.50	2.32	.88	37.78	*	*	*	.65	.01	1.01	-	-	-	-	-	-

TABLE 4.6

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Benshangul-Gumuz

TYPE OF CROPS	UNDER 0.10			0.10-0.50			0.51-1.00			1.01-2.0			2.01-5.00			5.01-10.00			10.01 & ABOVE			
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	
CEREALS	.11	.06	49.54	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.45	.10	21.30	.03	.01	43.23	.06	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	.45	.10	21.30	.03	.01	43.23	.06	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.56	.10	17.15	.08	.03	42.29	.06	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.7

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

(S.N.N.P.R)

TYPE OF CROPS	UNDER 0.10			0.10-0.50			0.51-1.00			1.01-2.0			2.01-5.00			5.01-10.00			10.01 & ABOVE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
CEREALS	17.23	1.89	10.99	60.71	13.51	22.25	26.94	8.49	31.50	*	*	*	*	*	*	-	-	-	-	-	-
Teff	.99	.25	25.51	1.18	.56	47.28	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Barley	3.70	1.27	34.44	25.64	11.17	43.56	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Wheat	.20	.07	34.58	.28	.13	46.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	10.26	1.10	10.71	29.72	6.06	20.38	15.20	5.15	33.92	*	*	*	-	-	-	-	-	-	-	-	-
Sorghum	1.76	.34	19.47	3.75	1.17	31.11	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Millet	.32	.12	38.70	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	22.72	3.39	14.91	55.81	10.40	18.64	23.33	5.79	24.83	10.82	3.56	32.91	-	-	-	-	-	-	-	-	-
Horse Beans	.36	.13	37.32	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	.16	.08	47.21	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	22.19	3.39	15.27	54.68	9.81	17.93	23.33	5.79	24.83	10.82	3.56	32.91	-	-	-	-	-	-	-	-	-
Chick Peas	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	.01	-	36.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	39.94	3.85	9.63	116.52	16.99	14.58	50.28	9.91	19.71	24.47	6.56	26.83	*	*	*	-	-	-	-	-	-

TABLE 4.9

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Harari																						
TYPE OF CROPS	UNDER 0.10			0.10-0.50			0.51-1.00			1.01-2.0			2.01-5.00			5.01-10.00			10.01 & ABOVE			
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	
CEREALS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.04	.01	15.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	.04	.01	15.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.04	.01	15.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.10

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Dire Dawa

TYPE OF CROPS	UNDER 0.10			0.10-0.50			0.51-1.00			1.01-2.0			2.01-5.00			5.01-10.00			10.01 & ABOVE			
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	
CEREALS	.04	.01	18.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.03	.01	32.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LinSeed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.04	.01	17.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 5

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

National

SIZE OF HOLDING (HECTARES)	IRRIGATED AREA			IMPROVED SEEDS APPLIED			FERTILIZERS APPLIED									PESTICIDE APPLIED							
							TOTAL			NATURAL			COMMER.			NAT + COMM							
	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.		
(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)
UNDER 0.10	8.60	1.67	19.38	1.41	.31	22.31	33.99	3.25	9.51	19.55	1.84	9.29	13.59	2.19	16.12	.85	.20	23.95	2.14	.65	30.40		
0.10 - 0.50	8.30	1.76	21.20	*	*	*	108.30	14.98	13.78	54.63	12.01	21.98	51.73	7.90	15.23	1.94	1.08	49.91	9.33	3.01	32.25		
0.51 - 1.00	*	*	*	*	*	*	40.66	8.45	20.79	18.66	5.39	28.87	21.76	6.03	27.70	*	*	*	2.87	1.14	39.56		
1.01 - 2.00	*	*	*	*	*	*	23.99	8.40	33.57	9.17	4.09	40.17	*	*	*	*	*	*	*	*	*		
2.01 - 5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
5.01 - 10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TOTAL	18.33	2.77	15.11	16.34	6.49	39.74	207.47	23.93	11.45	102.01	17.02	16.48	101.70	16.10	15.81	3.76	1.51	38.08	15.88	3.97	24.98		

TABLE 5.1

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Tigray

SIZE OF HOLDING (HECTARES)	IRRIGATED AREA			IMPROVED SEEDS APPLIED			FERTILIZERS APPLIED									PESTICIDE APPLIED							
							TOTAL			NATURAL			COMMER.			NAT + COMM							
	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.		
(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)
UNDER 0.10	.03	.01	27.12	-	-	-	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-		
0.10 - 0.50	*	*	*	-	-	-	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-		
0.51 - 1.00	*	*	*	-	-	-	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-		
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
5.01 - 10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TOTAL	*	*	*	-	-	-	*	*	*	-	-	-	*	*	*	-	-	-	-	-			

TABLE 5.2

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Amhara

SIZE OF HOLDING (HECTARES)	IRRIGATED AREA			IMPROVED SEEDS APPLIED			FERTILIZERS APPLIED												PESTICIDE APPLIED		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	TOTAL			NATURAL			COMMER.			NAT + COMM			Estimate ('000HA)	S.E ('000)	C.V. (%)
							Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)			
UNDER 0.10	5.38	1.16	21.65	*	*	*	1.59	.35	22.10	1.30	.26	19.67	*	*	*	*	*	*	.10	-	.76
0.10 - 0.50	1.90	.89	47.01	-	-	-	*	*	*	*	*	*	*	*	*	-	-	-	*	*	*
0.51 - 1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 - 10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	7.27	1.85	25.51	*	*	*	2.26	.64	28.16	1.65	.45	27.22	.50	.18	36.13	*	*	*	*	*	*

TABLE 5.3

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Oromia

SIZE OF HOLDING (HECTARES)	IRRIGATED AREA			IMPROVED SEEDS APPLIED			FERTILIZERS APPLIED												PESTICIDE APPLIED		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	TOTAL			NATURAL			COMMER.			NAT + COMM			Estimate ('000HA)	S.E ('000)	C.V. (%)
							Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)			
UNDER 0.10	2.97	1.19	40.14	*	*	*	13.85	2.06	14.85	6.65	.79	11.82	6.83	1.55	22.76	.37	.16	42.23	1.89	.64	34.05
0.10 - 0.50	5.37	1.48	27.61	*	*	*	57.35	8.43	14.69	15.48	2.84	18.34	40.93	7.51	18.36	.94	.30	32.45	8.77	3.00	34.22
0.51 - 1.00	*	*	*	*	*	*	23.66	6.47	27.35	7.71	3.16	41.03	15.71	5.53	35.22	*	*	*	2.40	1.14	47.38
1.01 - 2.00	-	-	-	*	*	*	6.11	2.44	39.98	*	*	*	3.88	1.68	43.33	*	*	*	*	*	*
2.01 - 5.00	-	-	-	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
5.01 - 10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	8.66	1.82	21.04	*	*	*	101.50	14.02	13.82	31.35	5.08	16.20	67.87	12.26	18.06	2.28	1.00	43.93	14.15	3.94	27.81

TABLE 5.4

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Somale

SIZE OF HOLDING (HECTARES)	IRRIGATED AREA			IMPROVED SEEDS APPLIED			FERTILIZERS APPLIED								PESTICIDE APPLIED			
							TOTAL		NATURAL		COMMER.		NAT + COMM					
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 0.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.10 - 0.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.51 - 1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.01 - 2.00	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 - 10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

TABLE 5.5

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Benshangul-Gumuz

SIZE OF HOLDING (HECTARES)	IRRIGATED AREA			IMPROVED SEEDS APPLIED			FERTILIZERS APPLIED								PESTICIDE APPLIED			
							TOTAL		NATURAL		COMMER.		NAT + COMM					
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 0.10	.04	.02	41.30	-	-	-	.05	.02	33.90	.05	.02	37.45	-	-	-	-	-	-
0.10 - 0.50	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.51 - 1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 - 10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	.08	.04	49.95	-	-	-	.05	.02	33.90	.05	.02	37.45	-	-	-	-	-	-

TABLE 5.6

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

(S.N.N.P.R)

SIZE OF HOLDING (HECTARES)	IRRIGATED AREA			IMPROVED SEEDS APPLIED			FERTILIZERS APPLIED												PESTICIDE APPLIED					
							TOTAL			NATURAL			COMMER.			NAT + COMM								
	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.			
(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	
UNDER 0.10	.14	.06	42.09	.80	.17	20.91	18.58	2.50	13.43	11.66	1.64	14.06	6.56	1.54	23.47	.36	.13	35.95	*	*	*			
0.10 - 0.50	.54	.05	9.62	2.46	1.11	40.86	50.32	12.37	24.59	38.56	11.66	30.24	10.54	2.43	23.04	*	*	*	.31	.13	41.65			
0.51 - 1.00	-	-	-	*	*	*	16.77	5.43	32.37	10.95	4.36	39.82	5.83	2.38	40.83	-	-	-	.46	.02	3.94			
1.01 - 2.00	-	-	-	-	-	-	18.90	8.04	42.50	8.69	3.94	45.31	*	*	*	-	-	-	*	*	*			
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
5.01 - 10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TOTAL	.68	.10	14.27	3.92	1.37	32.63	104.57	19.38	18.53	69.86	16.23	23.24	33.14	10.44	31.50	*	*	*	1.35	.46	33.78			

TABLE 5.7

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Gambela

SIZE OF HOLDING (HECTARES)	IRRIGATED AREA			IMPROVED SEEDS APPLIED			FERTILIZERS APPLIED												PESTICIDE APPLIED					
							TOTAL			NATURAL			COMMER.			NAT + COMM								
	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.	Estimate	S.E	C.V.			
(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	(^{'000} HA)	(^{'000})	(%)	
UNDER 0.10	-	-	-	.02	.01	44.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
0.10 - 0.50	-	-	-	.28	.13	44.98	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*			
0.51 - 1.00	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*			
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
5.01 - 10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TOTAL	-	-	-	.32	.13	40.74	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*			

TABLE 5.8

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Harari

SIZE OF HOLDING (HECTARES)	IRRIGATED AREA		IMPROVED SEEDS APPLIED		FERTILIZERS APPLIED									PESTICIDE APPLIED							
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	TOTAL			NATURAL			COMMER.			NAT + COMM			Estimate ('000HA)	S.E ('000)	C.V. (%)
							Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)			
UNDER 0.10	-	-	-	-	-	-	.03	.01	19.17	.02	-	20.89	-	-	-	.01	.003	30.16	-	-	-
0.10 - 0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.51 - 1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 - 10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	.03	.01	19.17	.02	-	20.89	-	-	-	.01	.003	30.16	-	-	-

TABLE 5.9

ESTIMATES AREA UNDER IMPROVED MANAGEMENT PRACTICE AND ITS STANDARD ERROR
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Dire Dawa

SIZE OF HOLDING (HECTARES)	IRRIGATED AREA		IMPROVED SEEDS APPLIED		FERTILIZERS APPLIED									PESTICIDE APPLIED							
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	TOTAL			NATURAL			COMMER.			NAT + COMM			Estimate ('000HA)	S.E ('000)	C.V. (%)
							Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)			
UNDER 0.10	.03	.01	26.90	-	-	-	.02	.01	28.65	.02	.01	27.95	-	-	-	-	-	-	-	-	-
0.10 - 0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.51 - 1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.01 - 2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.01 - 5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.01 - 10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.01 AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	.03	.01	23.92	-	-	-	.03	.01	25.85	.03	.01	25.05	-	-	-	-	-	-	-	-	-

TABLE 6

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

National

TYPE OF CROPS	TOTAL NUMBER OF HLDERS ENGAGED									TOTAL NUMBER OF HOLDERS		
	WITH CROP ONLY			WITH LIVESTOCK ONLY			WITH CROP & LIVESTOCK					
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	10.54	4.90	46.48	-	-	-	24.33	7.73	31.75	34.87	8.97	25.72
18 - 20	14.37	5.35	37.24	-	-	-	60.57	9.30	15.35	74.94	11.03	14.72
21 - 24	27.00	7.43	27.53	-	-	-	182.83	17.86	9.77	209.83	21.37	10.19
25 - 29	75.65	8.12	10.73	-	-	-	557.47	36.51	6.55	633.12	38.39	6.06
30 - 39	125.11	12.78	10.22	*	*	*	1,110.14	59.82	5.39	1,235.40	63.51	5.14
40 - 49	69.09	9.40	13.60	*	*	*	990.08	57.14	5.77	1,059.56	60.26	5.69
50 - 59	48.83	7.50	15.35	-	-	-	595.80	34.93	5.86	644.63	36.13	5.61
60 & ABOVE	72.74	9.53	13.10	-	-	-	672.40	49.78	7.40	745.14	52.96	7.11
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	443.35	39.80	8.98	*	*	*	4,193.62	195.88	4.67	4,637.50	215.49	4.65

TABLE 6.1

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Tigray

TYPE OF CROPS	TOTAL NUMBER OF HLDERS ENGAGED									TOTAL NUMBER OF HOLDERS		
	WITH CROP ONLY			WITH LIVESTOCK ONLY			WITH CROP & LIVESTOCK					
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	-	-	-	-	-	-	-	-	-	-	-	-
18 - 20	-	-	-	-	-	-	-	-	-	-	-	-
21 - 24	*	*	*	-	-	-	-	-	-	*	*	*
25 - 29	-	-	-	-	-	-	*	*	*	*	*	*
30 - 39	*	*	*	-	-	-	6.33	1.96	30.92	7.03	2.01	28.54
40 - 49	-	-	-	-	-	-	3.73	1.60	42.95	3.73	1.60	42.95
50 - 59	-	-	-	-	-	-	3.51	.98	28.03	3.51	.98	28.03
60 & ABOVE	*	*	*	-	-	-	4.49	1.84	41.02	4.93	2.10	42.58
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	*	*	*	-	-	-	18.94	4.94	26.07	20.33	5.35	26.33

TABLE 6.2

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Afar

TYPE OF CROPS	TOTAL NUMBER OF HLDERS ENGAGED									TOTAL NUMBER OF HOLDERS		
	WITH CROP ONLY			WITH LIVESTOCK ONLY			WITH CROP & LIVESTOCK					
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
UNDER 18	-	-	-	-	-	-	-	-	-	-	-	-
18 - 20	-	-	-	-	-	-	-	-	-	-	-	-
21 - 24	-	-	-	-	-	-	-	-	-	-	-	-
25 - 29	-	-	-	-	-	-	-	-	-	-	-	-
30 - 39	*	*	*	*	*	*	.39	.12	30.11	.39	.12	30.11
40 - 49	-	-	-	-	-	-	.26	.10	37.51	.33	.10	31.89
50 - 59	*	*	*	-	-	-	*	*	*	*	*	*
60 & ABOVE	*	*	*	-	-	-	*	*	*	*	*	*
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	.11	.04	39.13	*	*	*	1.99	.77	38.90	2.13	.80	37.59

TABLE 6.3

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Amhara

TYPE OF CROPS	TOTAL NUMBER OF HLDERS ENGAGED									TOTAL NUMBER OF HOLDERS		
	WITH CROP ONLY			WITH LIVESTOCK ONLY			WITH CROP & LIVESTOCK					
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
UNDER 18	*	*	*	-	-	-	*	*	*	*	*	*
18 - 20	*	*	*	-	-	-	*	*	*	2.50	1.09	43.69
21 - 24	*	*	*	-	-	-	10.14	2.82	27.86	11.07	2.81	25.36
25 - 29	6.47	2.71	41.85	-	-	-	41.94	8.07	19.25	48.40	8.85	18.29
30 - 39	6.46	2.27	35.23	-	-	-	84.48	11.59	13.71	90.94	12.89	14.18
40 - 49	7.16	2.41	33.71	-	-	-	96.21	16.53	17.19	103.37	17.02	16.47
50 - 59	4.64	1.91	41.12	-	-	-	77.18	9.79	12.68	81.82	10.26	12.54
60 & ABOVE	6.72	1.74	25.83	-	-	-	74.39	12.87	17.31	81.11	13.30	16.40
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	34.79	5.24	15.06	-	-	-	386.21	41.56	10.76	421.00	43.30	10.28

TABLE 6.4

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Oromia

TYPE OF CROPS	TOTAL NUMBER OF HLDERS ENGAGED									TOTAL NUMBER OF HOLDERS		
	WITH CROP ONLY			WITH LIVESTOCK ONLY			WITH CROP & LIVESTOCK					
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
UNDER 18	*	*	*	-	-	-	19.49	7.54	38.69	27.55	8.71	31.63
18 - 20	10.60	5.22	49.23	-	-	-	33.09	6.74	20.38	43.69	8.89	20.36
21 - 24	18.24	7.19	39.43	-	-	-	111.61	12.74	11.42	129.85	17.18	13.23
25 - 29	37.72	5.66	15.02	-	-	-	288.06	25.89	8.99	325.78	26.84	8.24
30 - 39	73.95	10.84	14.66	-	-	-	529.07	39.40	7.45	603.01	41.86	6.94
40 - 49	45.11	7.60	16.85	-	*	*	510.65	39.77	7.79	556.14	43.31	7.79
50 - 59	34.50	6.62	19.20	*	-	-	314.56	26.86	8.54	349.05	28.14	8.06
60 & ABOVE	51.70	8.79	17.00	-	-	-	365.23	38.24	10.47	416.93	41.42	9.93
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	279.87	36.75	13.13	*	*	*	2,171.77	137.95	6.35	2,452.02	160.31	6.54

TABLE 6.5

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Somale

TYPE OF CROPS	TOTAL NUMBER OF HLDERS ENGAGED									TOTAL NUMBER OF HOLDERS		
	WITH CROP ONLY			WITH LIVESTOCK ONLY			WITH CROP & LIVESTOCK					
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
UNDER 18	-	-	-	-	-	-	-	-	-	-	-	-
18 - 20	-	-	-	-	-	-	*	*	*	*	*	*
21 - 24	*	*	*	-	-	-	.70	.29	40.54	.85	.30	35.92
25 - 29	*	*	*	-	-	-	2.89	.97	33.45	3.03	.96	31.57
30 - 39	*	*	*	-	-	-	7.77	2.04	26.26	8.08	2.03	25.16
40 - 49	*	*	*	-	-	-	8.45	2.17	25.63	8.47	2.16	25.55
50 - 59	*	*	*	-	-	-	4.29	1.07	25.05	4.32	1.08	24.91
60 & ABOVE	*	*	*	-	-	-	2.69	.78	28.90	2.88	.84	29.18
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	.84	.34	41.07	-	-	-	27.11	6.09	22.46	27.95	6.22	22.25

TABLE 6.6

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Benshangul-Gumuz

TYPE OF CROPS	TOTAL NUMBER OF HLDERS ENGAGED									TOTAL NUMBER OF HOLDERS		
	WITH CROP ONLY			WITH LIVESTOCK ONLY			WITH CROP & LIVESTOCK					
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	-	-	-	-	-	-	-	-	-	-	-	-
18 - 20	*	*	*	-	-	-	-	-	-	-	-	-
21 - 24	.83	.35	41.84	-	-	-	.57	.25	43.71	.68	.31	45.21
25 - 29	.50	.18	36.42	-	-	-	1.80	.70	38.99	2.63	1.04	39.43
30 - 39	.54	.22	41.24	-	-	-	5.97	1.13	18.93	6.47	1.16	17.96
40 - 49	.28	.13	45.25	-	-	-	8.80	1.50	17.05	9.34	1.57	16.78
50 - 59	*	*	*	-	-	-	10.09	1.78	17.60	10.37	1.82	17.55
60 & ABOVE	.43	.17	39.34	-	-	-	6.59	1.26	19.04	6.74	1.27	18.88
NO SATATED	-	-	-	-	-	-	4.55	1.09	23.99	4.98	1.17	23.56
TOTAL	2.84	.53	18.57	-	-	-	38.37	5.35	13.95	41.22	5.78	14.03

TABLE 6.7

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

(S.N.N.P.R)

TYPE OF CROPS	TOTAL NUMBER OF HLDERS ENGAGED									TOTAL NUMBER OF HOLDERS		
	WITH CROP ONLY			WITH LIVESTOCK ONLY			WITH CROP & LIVESTOCK					
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	*	*	*	-	-	-	4.17	1.62	38.78	5.24	1.83	34.83
18 - 20	2.26	.92	40.87	-	-	-	24.76	6.33	25.55	27.02	6.41	23.70
21 - 24	5.40	1.56	28.91	-	-	-	56.43	12.15	21.54	61.83	12.28	19.87
25 - 29	28.72	5.08	17.68	-	-	-	213.24	24.38	11.43	241.96	25.87	10.69
30 - 39	40.28	6.30	15.64	*	*	*	466.37	43.38	9.30	506.76	45.85	9.05
40 - 49	14.63	4.93	33.69	-	-	-	354.49	37.41	10.55	369.12	38.13	10.33
50 - 59	8.54	2.93	34.33	-	-	-	185.16	19.98	10.79	193.70	20.11	10.38
60 & ABOVE	12.36	3.22	26.05	-	-	-	218.36	29.06	13.31	230.73	30.09	13.04
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	113.27	13.94	12.31	*	*	*	1,522.97	132.35	8.69	1,636.36	136.89	8.37

TABLE 6.8

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Gambela

TYPE OF CROPS	TOTAL NUMBER OF HLDERS ENGAGED									TOTAL NUMBER OF HOLDERS		
	WITH CROP ONLY			WITH LIVESTOCK ONLY			WITH CROP & LIVESTOCK					
	Estimate (¹ 000HA)	S.E (¹ 000)	C.V. (%)	Estimate (¹ 000HA)	S.E (¹ 000)	C.V. (%)	Estimate (¹ 000HA)	S.E (¹ 000)	C.V. (%)	Estimate (¹ 000HA)	S.E (¹ 000)	C.V. (%)
UNDER 18	*	*	*	-	-	-	.18	.08	44.71	.22	.09	39.22
18 - 20	*	*	*	-	-	-	.15	.06	41.04	.51	.22	42.71
21 - 24	*	*	*	-	-	-	1.62	.63	38.61	2.68	1.23	45.88
25 - 29	2.04	.78	38.30	-	-	-	2.57	.86	33.38	4.61	1.60	34.74
30 - 39	2.63	.87	33.23	-	-	-	3.82	.51	13.45	6.45	1.25	19.38
40 - 49	1.71	.68	39.67	-	-	-	3.53	.63	17.75	5.24	.83	15.77
50 - 59	.84	.25	29.25	-	-	-	1.78	.35	19.44	2.62	.47	17.99
60 & ABOVE	.79	.25	31.60	-	-	-	1.16	.32	27.26	1.95	.35	17.84
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	9.47	3.18	33.63	-	-	-	14.82	1.84	12.41	24.28	4.71	19.40

TABLE 6.9

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Harari

TYPE OF CROPS	TOTAL NUMBER OF HLDERS ENGAGED									TOTAL NUMBER OF HOLDERS		
	WITH CROP ONLY			WITH LIVESTOCK ONLY			WITH CROP & LIVESTOCK					
	Estimate (¹ 000HA)	S.E (¹ 000)	C.V. (%)	Estimate (¹ 000HA)	S.E (¹ 000)	C.V. (%)	Estimate (¹ 000HA)	S.E (¹ 000)	C.V. (%)	Estimate (¹ 000HA)	S.E (¹ 000)	C.V. (%)
UNDER 18	-	-	-	-	-	-	*	*	*	*	*	*
18 - 20	-	-	-	-	-	-	*	*	*	*	*	*
21 - 24	*	*	*	-	-	-	.40	.13	31.94	.55	.17	30.88
25 - 29	*	*	*	-	-	-	1.18	.29	24.11	1.21	.28	23.38
30 - 39	.21	.09	40.42	-	-	-	2.39	.51	21.13	2.61	.54	20.68
40 - 49	*	*	*	-	-	-	1.89	.37	19.50	2.06	.40	19.31
50 - 59	*	*	*	-	-	-	1.76	.43	24.20	1.83	.43	23.28
60 & ABOVE	.07	.03	40.16	-	-	-	.71	.21	30.17	.77	.21	27.58
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	.70	.10	14.91	-	-	-	8.58	1.53	17.83	9.28	1.63	17.56

TABLE 6.10

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Dire Dawa

TYPE OF CROPS	TOTAL NUMBER OF HLDERS ENGAGED									TOTAL NUMBER OF HOLDERS		
	WITH CROP ONLY			WITH LIVESTOCK ONLY			WITH CROP & LIVESTOCK					
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
UNDER 18	-	-	-	-	-	-	*	*	*	*	*	*
18 - 20	-	-	-	-	-	-	-	-	-	-	-	-
21 - 24	-	-	-	-	-	-	*	*	*	*	*	*
25 - 29	*	*	*	-	-	-	.35	.12	32.90	.38	.12	31.77
30 - 39	-	-	-	-	-	-	.86	.28	32.03	.86	.28	32.03
40 - 49	-	-	-	-	-	-	.73	.17	23.50	.73	.17	23.50
50 - 59	.04	.02	47.72	-	-	-	.48	.13	26.84	.52	.12	23.66
60 & ABOVE	-	-	-	-	-	-	.29	.12	41.73	.29	.12	41.73
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	.07	.01	11.69	-	-	-	2.86	.68	23.96	2.93	.68	23.28

TABLE 7

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

National																		
TOTAL NUMBER OF HLDERS ENGAGE																		
AGE OF HOLDERS	IRRIGATION			IMPROVED SEEDS			NATURAL FERTILIZERS			COMMERCILA FERTILIZERS			BOTH NAT + COMM.			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-	*	*	*
18 - 20	2.14	.89	41.71	.60	.29	48.20	8.90	2.90	32.54	6.17	2.43	39.41	-	-	-	*	*	*
21 - 24	13.73	3.14	22.87	*	*	*	33.72	6.74	19.99	26.79	6.34	23.67	*	*	*	*	*	*
25 - 29	44.36	7.03	15.84	11.22	4.16	37.06	112.71	15.14	13.43	82.24	13.33	16.21	*	*	*	14.58	4.47	30.65
30 - 39	97.07	11.92	12.28	24.91	8.31	33.34	220.45	23.34	10.59	170.85	20.64	12.08	9.48	3.23	34.07	18.79	4.58	24.37
40 - 49	87.59	12.49	14.25	15.81	4.18	26.42	175.68	16.56	9.43	138.06	24.15	17.49	8.29	3.42	41.20	18.82	3.58	19.01
50 - 59	72.18	11.21	15.53	6.00	1.51	25.13	114.72	12.75	11.12	87.17	12.92	14.83	2.75	.81	29.38	20.42	5.86	28.71
60 & ABOVE	59.68	11.39	19.08	*	*	*	143.37	22.76	15.88	80.42	13.47	16.75	6.17	2.69	43.65	20.63	6.32	30.63
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	378.26	41.02	10.84	74.78	24.31	32.50	812.80	71.82	8.84	603.64	66.70	11.05	29.90	6.71	22.45	99.08	21.22	21.41

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TABLE 7.1

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Tigray																		
TOTAL NUMBER OF HLDERS ENGAGE																		
AGE OF HOLDERS	IRRIGATION			IMPROVED SEEDS			NATURAL FERTILIZERS			COMMERCILA FERTILIZERS			BOTH NAT + COMM.			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 - 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 - 24	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 - 29	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 - 39	6.46	1.94	29.99	-	-	-	*	*	*	*	*	*	-	-	-	-	-	-
40 - 49	3.55	1.56	44.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 - 59	3.51	.85	24.06	-	-	-	-	-	-	1.96	.71	36.22	-	-	-	-	-	-
60 & ABOVE	4.37	2.08	47.69	-	-	-	*	*	*	.96	.38	39.75	.25	*	*	-	-	-
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	19.02	5.05	26.56	-	-	-	*	*	*	*	*	*	*	*	*	-	-	-

TABLE 7.2

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Afar

AGE OF HOLDERS	TOTAL NUMBER OF HLDERS ENGAGE																	
	IRRIGATION			IMPROVED SEEDS			NATURAL FERTILIZERS			COMMERCILA FERTILIZERS			BOTH NAT + COMM.			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 - 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 - 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 - 29	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 - 39	.22	.11	48.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40 - 49	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 - 59	*	*	*	-	-	-	.08	-	-	-	-	-	-	-	-	-	-	-
60 & ABOVE	*	*	*	-	-	-	.16	-	-	-	-	-	-	-	-	-	-	-
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	*	*	*	-	-	-	.23	-	-	-	-	-	-	-	-	-	-	-

TABLE 7.3

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Amhara

AGE OF HOLDERS	TOTAL NUMBER OF HLDERS ENGAGE																	
	IRRIGATION			IMPROVED SEEDS			NATURAL FERTILIZERS			COMMERCILA FERTILIZERS			BOTH NAT + COMM.			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 - 20	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-
21 - 24	5.43	1.86	34.25	-	-	-	1.31	.45	34.38	*	*	*	-	-	-	-	-	-
25 - 29	27.54	6.15	22.32	-	-	-	9.57	3.40	35.49	*	*	*	-	-	-	*	*	*
30 - 39	54.39	9.04	16.62	.71	-	-	5.29	1.74	32.92	*	*	*	.53	-	-	*	*	*
40 - 49	49.22	10.89	22.12	.71	-	-	15.81	2.72	17.20	2.90	1.34	46.07	-	-	-	*	*	*
50 - 59	39.80	7.20	18.09	-	-	-	13.36	2.90	21.72	1.56	.54	34.78	.51	-	-	*	*	*
60 & ABOVE	32.65	8.28	25.35	.71	-	-	15.98	5.00	31.28	-	-	-	.51	-	-	.97	.42	42.81
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	210.44	28.76	13.67	2.14	-	-	61.70	6.71	10.88	8.31	1.95	23.46	1.56	-	-	3.88	.01	.26

TABLE 7.4

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Oromia																		
TOTAL NUMBER OF HLDERS ENGAGE																		
AGE OF HOLDERS	IRRIGATION			IMPROVED SEEDS			NATURAL FERTILIZERS			COMMERCILA FERTILIZERS			BOTH NAT + COMM.			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-	*	*	*
18 - 20	1.56	.78	49.64	-	-	-	2.66	1.04	38.95	4.64	2.27	49.00	-	-	-	*	*	*
21 - 24	7.89	2.52	31.86	*	*	*	13.18	2.90	21.97	21.50	6.07	28.24	*	*	*	*	*	*
25 - 29	13.80	3.29	23.86	*	*	*	32.60	5.78	17.73	43.21	9.33	21.59	*	*	*	12.50	4.38	35.02
30 - 39	32.86	7.48	22.77	*	*	*	73.27	9.75	13.31	92.69	16.65	17.97	3.79	1.11	29.28	16.87	4.53	26.85
40 - 49	31.65	5.86	18.51	*	*	*	59.80	8.65	14.47	65.89	14.90	22.62	3.68	1.66	44.99	17.24	3.46	20.09
50 - 59	26.92	8.54	31.72	*	*	*	30.98	4.81	15.54	62.88	11.99	19.07	*	*	*	19.13	5.80	30.31
60 & ABOVE	20.59	7.53	36.58	*	*	*	40.82	8.29	20.30	51.88	11.28	21.75	*	*	*	17.62	6.09	34.58
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	135.80	28.76	21.18	*	*	*	256.06	25.78	10.07	352.63	54.11	15.35	13.20	3.35	25.41	89.13	21.14	23.72

TABLE 7.5

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Somale																		
TOTAL NUMBER OF HLDERS ENGAGE																		
AGE OF HOLDERS	IRRIGATION			IMPROVED SEEDS			NATURAL FERTILIZERS			COMMERCILA FERTILIZERS			BOTH NAT + COMM.			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 - 20	-	-	-	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
21 - 24	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-
25 - 29	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
30 - 39	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
40 - 49	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
50 - 59	.08	.03	39.68	*	*	*	*	*	*	.02	-	-	-	-	-	-	-	-
60 & ABOVE	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	.87	.43	50.00	.66	.32	49.48	*	*	*	.02	-	-	-	-	-	-	-	-

TABLE 7.6

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Benshangul-Gumuz

AGE OF HOLDERS	TOTAL NUMBER OF HLDERS ENGAGE																	
	IRRIGATION			IMPROVED SEEDS			NATURAL FERTILIZERS			COMMERCILA FERTILIZERS			BOTH NAT + COMM.			PESTICIDE		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
UNDER 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 - 20	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-
21 - 24	-	-	-	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
25 - 29	*	*	*	*	*	*				-	-	-	-	-	-	-	-	-
30 - 39	.56	.15	26.62	-	-	-	.92	.30	32.18	-	-	-	-	-	-	-	-	-
40 - 49	.81	.20	24.45	-	-	-	1.28	.62	48.18	*	*	*	-	-	-	-	-	-
50 - 59	.62	.21	33.47	-	-	-	.52	.21	40.88	-	-	-	-	-	-	-	-	-
60 & ABOVE	.27	.13	49.66	-	-	-	.96	.32	33.06	-	-	-	-	-	-	-	-	-
NO SATATED	-	-	-	-	-	-	.70	.26	37.19	-	-	-	-	-	-	-	-	-
TOTAL	2.81	.67	24.04	.11	.01	7.10	4.62	1.37	29.70	*	*	*	-	-	-	-	-	-

TABLE 7.7

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

(S.N.N.P.R)

AGE OF HOLDERS	TOTAL NUMBER OF HLDERS ENGAGE																	
	IRRIGATION			IMPROVED SEEDS			NATURAL FERTILIZERS			COMMERCILA FERTILIZERS			BOTH NAT + COMM.			PESTICIDE		
	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)	Estimate (['] 000HA)	S.E (['] 000)	C.V. (%)
UNDER 18	-	-	-	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
18 - 20	*	*	*	*	*	*	5.47	2.67	48.85	*	*	*	-	-	-	-	-	-
21 - 24	*	*	*	*	*	*	18.45	6.06	32.86	4.80	1.78	37.16	*	*	*	*	*	*
25 - 29	*	*	*	5.76	1.82	31.63	68.18	13.57	19.90	37.66	9.47	25.15	*	*	*	1.19	.34	28.19
30 - 39	*	*	*	12.03	3.55	29.50	136.70	21.10	15.43	73.77	12.01	16.28	*	*	*	1.18	.49	41.87
40 - 49	*	*	*	8.19	2.76	33.74	97.53	13.84	14.19	67.06	18.91	28.20	*	*	*	*	*	*
50 - 59	*	*	*	3.74	1.15	30.88	67.77	11.44	16.88	20.68	4.74	22.91	1.56	.69	44.35	*	*	*
60 & ABOVE	1.15	.11	9.62	1.90	.64	33.48	83.91	20.60	24.55	27.37	7.35	26.84	*	*	*	*	*	*
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	5.48	1.05	19.23	32.94	6.79	20.62	478.48	66.62	13.92	234.88	38.79	16.51	13.61	5.80	42.62	5.49	1.71	31.07

TABLE 7.8

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Gambela

AGE OF HOLDERS	TOTAL NUMBER OF HLDERS ENGAGE																	
	IRRIGATION			IMPROVED SEEDS			NATURAL FERTILIZERS			COMMERCILA FERTILIZERS			BOTH NAT + COMM.			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
18 - 20	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
21 - 24	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
25 - 29	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
30 - 39	-	-	-	.57	.22	38.07	-	-	-	*	*	*	-	-	-	*	*	*
40 - 49	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
50 - 59	-	-	-	.25	.09	35.64	-	-	-	-	-	-	-	-	-	*	*	*
60 & ABOVE NO SATATED	-	-	-	.23	.09	39.36	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	1.80	.55	30.43	-	-	-	*	*	*	-	-	-	*	*	*

TABLE 7.9

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Harari

AGE OF HOLDERS	TOTAL NUMBER OF HLDERS ENGAGE																	
	IRRIGATION			IMPROVED SEEDS			NATURAL FERTILIZERS			COMMERCILA FERTILIZERS			BOTH NAT + COMM.			PESTICIDE		
	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)	Estimate (^{'000} HA)	S.E (^{'000})	C.V. (%)
UNDER 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 - 20	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-
21 - 24	-	-	-	-	-	-	.35	.13	38.33	*	*	*	-	-	-	-	-	-
25 - 29	*	*	*	-	-	-	.58	.13	21.85	*	*	*	*	*	*	*	*	*
30 - 39	.08	.03	39.21	-	-	-	1.22	.31	25.75	*	*	*	*	*	*	-	-	-
40 - 49	*	*	*	-	-	-	.96	.23	23.88	.16	.07	41.05	.40	.19	47.72	-	-	-
50 - 59	*	*	*	*	*	*	.80	.22	27.53	*	*	*	.27	.11	41.29	-	-	-
60 & ABOVE NO SATATED	*	*	*	-	-	-	.25	.12	47.00	*	*	*	*	*	*	-	-	-
TOTAL	.43	.09	21.80	*	*	*	4.30	.71	16.51	.72	.17	23.19	1.25	.40	32.10	*	*	*

TABLE 7.10

ESTIMATES QUANTITY OF TOTAL NUMBER OF HOLDERS BY AGE OF HOLDERS AND TYPE OF HOLDING
AND COEFFICIENT OF VARIATION, 1999/00(1992 E.C.)

Dire Dawa

AGE OF HOLDERS	TOTAL NUMBER OF HLDERS ENGAGE																	
	IRRIGATION			IMPROVED SEEDS			NATURAL FERTILIZERS			COMMERCILA FERTILIZERS			BOTH NAT + COMM.			PESTICIDE		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
UNDER 18	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-
18 - 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 - 24	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-	-	-	-
25 - 29	.27	.11	38.99	-	-	-	.24	.09	38.69	-	-	-	-	-	-	-	-	-
30 - 39	.74	.27	36.00	*	*	*	.65	.28	43.27	-	-	-	-	-	-	-	-	-
40 - 49	.56	.15	27.52	*	*	*	.43	.11	26.73	-	-	-	-	-	-	-	-	-
50 - 59	.36	.12	32.65	-	-	-	.30	.10	33.15	-	-	-	-	-	-	-	-	-
60 & ABOVE	.27	.11	39.35	-	-	-	.23	.10	42.66	*	*	*	*	*	*	*	*	*
NO SATATED	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*	-	-	-
TOTAL	2.29	.67	29.35	*	*	*	1.97	.62	31.51	*	*	*	*	*	*	-	-	-

