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

**( September 1999 – February 2000)**

**VOLUME III**

**REPORT ON**

**FARM MANAGEMENT PRACTICES**

**( PRIVATE PEASANT HOLDINGS, MEHER SEASON )**

**Addis Ababa  
September, 2000**

**227**

**STATISTICAL BULLETIN**

**227**

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U.S. DEPARTMENT OF AGRICULTURE  
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Tel. 55-30-11

## TABLE OF CONTENTS

	<u>Page</u>
List of Tables.....	iii
List of Figures.....	xiii
<b>PART I. INTRODUCTION AND OBJECTIVES OF THE SURVEY</b>	
1. Introduction.....	1
2. Objective of the Survey .....	2
<b>PART II. SURVEY METHODOLOGY, DATA COLLECTION AND PROCESSING</b>	
1. Scope, Coverage and Content of the Survey .....	3
2. Concepts and Definitions.....	5
3. Sample Design.....	18
4. Field Organization.....	19
5. Training of Field Staff .....	12
6. Method of Data Collection.....	12
7. Data Processing.....	13
a) Editing, Coding and Verification.....	13
b) Data Entry, Cleaning and Tabulation.....	13
<b>PART III. SUMMARY OF THE SURVEY RESULTS.</b>	
1. Area Under Different Farm Management Practices .....	15
1.1 Total Fertilizer Applied Area.....	16
1.2 Total Pesticide Applied Area.....	17
1.3 Total Improved Seed Applied Area.....	17
1.4 Total Irrigated Area.....	18
2. Total Fertilizer Applied Area by Type of Fertilizer and Crop .....	81
2.1 Natural Fertilizer Applied Area .....	82
2.2 DAP Applied Area .....	82
2.3 UREA Applied Area .....	82
2.4 Area with a Combination of DAP and UREA Applied.....	83
2.5 Area with a Combination of Natural and Commercial Fertilizer Applied .....	83
3. Quantity of Commercial Fertilizer Applied by Type .....	147
3.1 Quantity of DAP Applied .....	147
3.2 Quantity of UREA Applied .....	147
3.3 Quantity of DAP and UREA Applied in Mix.....	148
3.4 Quantity of Commercial and Natural Fertilizers Applied in Mix .....	148

4. Quantity of Local and Improved Seeds used by Type of Crop.....	213
5. Number of Holders Applying Agricultural Inputs on their fields by their Educational Attainment.....	247
Appendix I. Estimation Procedures and Formulations for Estimates of Totals and Variance.....	279
Appendix II. Estimates of the Standard Errors with the Corresponding Coefficient of Variations .....	285



## LIST OF TABLES

### Page

Estimates of Improved Seed, Irrigation, Pesticides and Fertilizer applied  
area and their percentage distribution by crop for Meher season of private  
peasant holdings, 1999/2000 (1992 E.C)

Table 1.1	NATIONAL .....	19
Table 1.2	NATIONAL - REGION.....	20
Table 1.3	TIGRAY .....	22
Table 1.3.1	West Tigray Zone .....	23
Table 1.3.2	Central Tigray Zone.....	24
Table 1.3.3	East Tigray Zone.....	25
Table 1.3.4	South Tigray Zone .....	26
Table 1.4	AFAR .....	27
Table 1.4.1	Zone 1 Zone .....	28
Table 1.4.2	Zone 3 Zone .....	29
Table 1.5	AMHARA .....	30
Table 1.5.1	North Gonder Zone.....	31
Table 1.5.2	South Gonder Zone.....	32
Table 1.5.3	North Wolo Zone .....	33
Table 1.5.4	South Wolo Zone .....	34
Table 1.5.5	North Shewa Zone .....	35
Table 1.5.6	East Gojam Zone.....	36
Table 1.5.7	West Gojam Zone .....	37
Table 1.5.8	Waghamera Zone .....	38
Table 1.5.9	Agewawi Zone .....	39
Table 1.5.10	Oromiya Zone .....	40
Table 1.6	OROMIYA.....	41
Table 1.6.1	West Welega Zone.....	42
Table 1.6.2	East Welega Zone .....	43
Table 1.6.3	Ilibabor Zone.....	44
Table 1.6.4	Jimma Zone.....	45
Table 1.6.5	West Shewa Zone .....	46
Table 1.6.6	North Shewa Zone .....	47
Table 1.6.7	East Sheawa Zone .....	48
Table 1.6.8	Arsi Zone.....	49

	<u>Page</u>
Table 1.6.9 West Harerge Zone .....	50
Table 1.6.10 East Harerge Zone .....	51
Table 1.6.11 Bale Zone .....	52
Table 1.6.12 Borena Zone.....	53
Table 1.7 SOMALE .....	54
Table 1.7.1 Shinele Zone.....	55
Table 1.7.2 Jijiga Zone .....	56
Table 1.7.3 Moyale Zone .....	57
Table 1.8 BENSHANGUL - GUMUZ.....	58
Table 1.8.1 Metekel Zone .....	59
Table 1.8.2 Asosa Zone.....	60
Table 1.8.3 Kemeshi Zone .....	61
Table 1.9 S.N.N.P.R.....	62
Table 1.9.1 Gurage Zone.....	63
Table 1.9.2 Hadiya Zone.....	64
Table 1.9.3 Kembata Alaba Tembaro Zone.....	65
Table 1.9.4 Sidama Zone .....	66
Table 1.9.5 Gedio Zone.....	67
Table 1.9.6 North Omo Zone .....	68
Table 1.9.7 South Omo Zone .....	69
Table 1.9.8 Keficho- Shekicho Zone .....	70
Table 1.9.9 Bench-Maje Zone .....	71
Table 1.9.10 Yem Special Wereda Zone .....	72
Table 1.9.11 Amaro Special Wereda Zone.....	73
Table 1.9.12 Burji Special Wereda Zone.....	74
Table 1.9.13 Konso Special Wereda Zone .....	75
Table 1.9.14 Derashe Special Wereda Zone.....	76
Table 1.10. GAMBELA.....	77
Table 1.11. HARARI .....	78
Table 1.12. ADDIS ABABA .....	79
Table 1.13. DIRE DAWA.....	80

**Estimates of Fertilizer Applied Area by Type of Fertilizer for Meher Season  
Crops of Private Peasant Holdings (1999/2000 1992 E.C.)**

Table 2.1	NATIONAL .....	84
Table 2.2	NATIONAL - REGION.....	85
Table 2.3	TIGRAY.....	87
Table 2.3.1	West Tigray Zone .....	88
Table 2.3.2	Central Tigray Zone.....	89
Table 2.3.3	East Tigray Zone.....	90
Table 2.3.4	South Tigray Zone .....	91
Table 2.4	AFAR .....	92
Table 2.4.1	Zone 1 Zone .....	93
Table 2.4.2	Zone 3 Zone.....	94
Table 2.5	AMHARA .....	95
Table 2.5.1	North Gonder Zone.....	96
Table 2.5.2	South Gonder Zone.....	97
Table 2.5.3	North Wolo Zone .....	98
Table 2.5.4	South Wolo Zone .....	99
Table 2.5.5	North Shewa Zone .....	100
Table 2.5.6	East Gojam Zone.....	101
Table 2.5.7	West Gojam Zone.....	102
Table 2.5.8	Waghamera Zone.....	103
Table 2.5.9	Agewawi Zone .....	104
Table 2.5.10	Oromiya Zone .....	105
Table 2.6	OROMIYA.....	106
Table 2.6.1	West Welega Zone.....	107
Table 2.6.2	East Welega Zone .....	108
Table 2.6.3	Ilibabor Zone.....	109
Table 2.6.4	Jimma Zone.....	110
Table 2.6.5	West Shewa Zone .....	111
Table 2.6.6	North Shewa Zone.....	112
Table 2.6.7	East Sheawa Zone.....	113
Table 2.6.8	Arsi Zone.....	114
Table 2.6.9	West Harerge Zone .....	115
Table 2.6.10	East Harerge Zone .....	116

	<u>Page</u>
Table 2.6.11 Bale Zone .....	117
Table 2.6.12 Borena Zone.....	118
Table 2.7 SOMALE .....	119
Table 2.7.1 Shinele Zone .....	120
Table 2.7.2 Jijiga Zone.....	121
Table 2.7.3 Moyale Zone .....	122
Table 2.8 BENSHANGUL - GUMUZ.....	123
Table 2.8.1 Metekel Zone .....	124
Table 2.8.2 Asosa Zone.....	125
Table 2.8.3 Kemeshi Zone .....	126
Table 2.9 S.N.N.P.R.....	127
Table 2.9.1 Gurage Zone.....	128
Table 2.9.2 Hadiya Zone.....	129
Table 2.9.3 Kembata Alaba Tembaro Zone.....	130
Table 2.9.4 Sidama Zone .....	131
Table 2.9.5 Gedio Zone.....	132
Table 2.9.6 North Omo Zone .....	133
Table 2.9.7 South Omo Zone .....	134
Table 2.9.8 Keficho- Shekicho Zone .....	135
Table 2.9.9 Bench-Maje Zone .....	136
Table 2.9.10 Yem Special Wereda Zone .....	137
Table 2.9.11 Amaro Special Wereda Zone.....	138
Table 2.9.12 Burji Special Wereda Zone.....	139
Table 2.9.13 Konso Special Wereda Zone .....	140
Table 2.9.14 Derashe Special Wereda Zone.....	141
Table 2.10. GAMBELA .....	142
Table 2.11. HARARI .....	143
Table 2.12. ADDIS ABABA .....	144
Table 2.13. DIRE DAWA.....	145

**Estimates of Quantity of Commercial Fertilizer by Type of Fertilizer for  
Meher Season Crops of Private Peasant Holdings (1999/2000 1992E.C.)**

Table 3.1	NATIONAL .....	149
Table 3.2	NATIONAL - REGION.....	151
Table 3.3	TIGRAY.....	153
Table 3.3.1	West Tigray Zone.....	154
Table 3.3.2	Central Tigray Zone.....	155
Table 3.3.3	East Tigray Zone.....	156
Table 3.3.4	South Tigray Zone .....	157
Table 3.4	AFAR.....	158
Table 3.4.1	Zone 1 Zone.....	159
Table 3.4.2	Zone 3 Zone.....	160
Table 3.5	AMHARA.....	161
Table 3.5.1	North Gonder Zone.....	162
Table 3.5.2	South Gonder Zone.....	163
Table 3.5.3	North Wolo Zone.....	164
Table 3.5.4	South Wolo Zone.....	165
Table 3.5.5	North Shewa Zone .....	166
Table 3.5.6	East Gojam Zone.....	167
Table 3.5.7	West Gojam Zone .....	168
Table 3.5.8	Waghamera Zone.....	169
Table 3.5.9	Agewawi Zone.....	170
Table 3.5.10	Oromiya Zone.....	171
Table 3.6	OROMIYA.....	172
Table 3.6.1	West Welega Zone.....	173
Table 3.6.2	East Welega Zone .....	174
Table 3.6.3	Ilibabor Zone.....	175
Table 3.6.4	Jimma Zone.....	176
Table 3.6.5	West Shewa Zone .....	177
Table 3.6.6	North Shewa Zone .....	178
Table 3.6.7	East Sheawa Zone.....	179
Table 3.6.8	Arsi Zone.....	180
Table 3.6.9	West Harerge Zone .....	181
Table 3.6.10	East Harerge Zone .....	182
Table 3.6.11	Bale Zone.....	183
Table 3.6.12	Borena Zone.....	184

	<u>Page</u>
Table 3.7 SOMALE .....	185
Table 3.7.1 Shinele Zone .....	186
Table 3.7.2 Jijiga Zone.....	187
Table 3.7.3 Moyale Zone.....	188
Table 3.8 BENSHANGUL - GUMUZ.....	189
Table 3.8.1 Metekel Zone .....	190
Table 3.8.2 Asosa Zone.....	191
Table 3.8.3 Kemeshi Zone .....	192
Table 3.9 S.N.N.P.R.....	193
Table 3.9.1 Gurage Zone.....	194
Table 3.9.2 Hadiya Zone.....	195
Table 3.9.3 Kembata Alaba Tembaro Zone.....	196
Table 3.9.4 Sidama Zone .....	197
Table 3.9.5 Gedio Zone.....	198
Table 3.9.6 North Omo Zone.....	199
Table 3.9.7 South Omo Zone.....	200
Table 3.9.8 Keficho- Shekicho Zone.....	201
Table 3.9.9 Bench-Maje Zone .....	202
Table 3.9.10 Yem Special Wereda Zone .....	203
Table 3.9.11 Amaro Special Wereda Zone.....	204
Table 3.9.12 Burji Special Wereda Zone.....	205
Table 3.9.13 Konso Special Wereda Zone .....	206
Table 3.9.14 Derashe Special Wereda Zone.....	207
Table 3.10. GAMBELA.....	208
Table 3.11. HARARI .....	209
Table 3.12. ADDIS ABABA .....	210
Table 3.13. DIRE DAWA.....	211

**Page**

Estimates of Quantity of Improved Seed and Local Seed by Type of Crops  
for Private Peasant Holdings. (1999/2000 1992 E.C.)

Table 4.1	NATIONAL .....	214
Table 4.2	NATIONAL - REGION.....	214
Table 4.3	TIGRAY.....	216
Table 4.3.1	West Tigray Zone .....	216
Table 4.3.2	Central Tigray Zone.....	217
Table 4.3.3	East Tigray Zone.....	217
Table 4.3.4	South Tigray Zone .....	218
Table 4.4	AFAR.....	218
Table 4.4.1	Zone 1 Zone .....	219
Table 4.4.2	Zone 3 Zone .....	219
Table 4.5	AMHARA.....	220
Table 4.5.1	North Gonder Zone.....	221
Table 4.5.2	South Gonder Zone.....	221
Table 4.5.3	North Wolo Zone.....	222
Table 4.5.4	South Wolo Zone.....	222
Table 4.5.5	North Shewa Zone .....	223
Table 4.5.6	East Gojam Zone.....	223
Table 4.5.7	West Gojam Zone.....	224
Table 4.5.8	Waghamera Zone.....	224
Table 4.5.9	Agewawi Zone .....	225
Table 4.5.10	Oromiya Zone .....	225
Table 4.6	OROMIYA.....	226
Table 4.6.1	West Welega Zone.....	226
Table 4.6.2	East Welega Zone .....	227
Table 4.6.3	Ilibabor Zone.....	227
Table 4.6.4	Jimma Zone.....	228
Table 4.6.5	West Shewa Zone .....	228
Table 4.6.6	North Shewa Zone .....	229
Table 4.6.7	East Sheawa Zone.....	229
Table 4.6.8	Arsi Zone.....	230

	<u>Page</u>
Table 4.6.9 West Harerge Zone .....	230
Table 4.6.10 East Harerge Zone .....	231
Table 4.6.11 Bale Zone .....	231
Table 4.6.12 Borena Zone.....	232
Table 4.7 SOMALE .....	232
Table 4.7.1 Shinele Zone .....	233
Table 4.7.2 Jijiga Zone.....	233
Table 4.7.3 Moyale Zone .....	234
Table 4.8 BENSHANGUL - GUMUZ.....	234
Table 4.8.1 Metekel Zone .....	235
Table 4.8.2 Asosa Zone.....	235
Table 4.8.3 Kemeshi Zone .....	236
Table 4.9 S.N.N.P.R.....	236
Table 4.9.1 Gurage Zone.....	237
Table 4.9.2 Hadiya Zone.....	237
Table 4.9.3 Kembata Alaba Tembaro Zone.....	238
Table 4.9.4 Sidama Zone .....	238
Table 4.9.5 Gedio Zone.....	239
Table 4.9.6 North Omo Zone .....	239
Table 4.9.7 South Omo Zone .....	240
Table 4.9.8 Keficho- Shekicho Zone .....	240
Table 4.9.9 Bench-Maje Zone .....	241
Table 4.9.10 Yem Special Wereda Zone .....	241
Table 4.9.11 Amaro Special Wereda Zone.....	242
Table 4.9.12 Burji Special Wereda Zone.....	242
Table 4.9.13 Konso Special Wereda Zone .....	243
Table 4.9.14 Derashe Special Wereda Zone.....	243
Table 4.10. GAMBELA.....	244
Table 4.11. HARARI .....	244
Table 4.12. ADDIS ABABA .....	245
Table 4.13. DIRE DAWA.....	245



**Page**

Number of Holders who Applied Agricultural Practices on their fields by  
Educational Attainment for Private Peasant Holdings. (1999/2000 1992 E.C.)

Table 5.1	NATIONAL .....	248
Table 5.2	NATIONAL - REGION.....	248
Table 5.3	TIGRAY .....	249
Table 5.3.1	West Tigray Zone .....	249
Table 5.3.2	Central Tigray Zone.....	250
Table 5.3.3	East Tigray Zone.....	250
Table 5.3.4	South Tigray Zone .....	251
Table 5.4	AFAR .....	251
Table 5.4.1	Zone 1 Zone .....	252
Table 5.4.2	Zone 3 Zone .....	252
Table 5.5	AMHARA .....	253
Table 5.5.1	North Gonder Zone .....	254
Table 5.5.2	South Gonder Zone.....	254
Table 5.5.3	North Wolo Zone .....	255
Table 5.5.4	South Wolo Zone .....	255
Table 5.5.5	North Shewa Zone .....	256
Table 5.5.6	East Gojam Zone.....	256
Table 5.5.7	West Gojam Zone .....	257
Table 5.5.8	Waghamera Zone.....	257
Table 5.5.9	Agewawi Zone .....	258
Table 5.5.10	Oromiya Zone .....	258
Table 5.6	OROMIYA.....	259
Table 5.6.1	West Welega Zone.....	259
Table 5.6.2	East Welega Zone .....	260
Table 5.6.3	Ilibabor Zone.....	260
Table 5.6.4	Jimma Zone.....	261
Table 5.6.5	West Shewa Zone .....	261
Table 5.6.6	North Shewa Zone .....	262

	<u>Page</u>
Table 5.6.7 East Sheawa Zone.....	262
Table 5.6.8 Arsi Zone.....	263
Table 5.6.9 West Harerge Zone .....	263
Table 5.6.10 East Harerge Zone .....	264
Table 5.6.11 Bale Zone .....	264
Table 5.6.12 Borena Zone.....	265
Table 5.7 SOMALE .....	265
Table 5.7.1 Shinele Zone .....	266
Table 5.7.2 Jijiga Zone.....	266
Table 5.7.3 Moyale Zone .....	267
Table 5.8 BENSHANGUL - GUMUZ.....	267
Table 5.8.1 Metekel Zone .....	268
Table 5.8.2 Asosa Zone.....	268
Table 5.8.3 Kemeshi Zone .....	269
Table 5.9 S.N.N.P.R.....	269
Table 5.9.1 Gurage Zone.....	270
Table 5.9.2 Hadiya Zone.....	270
Table 5.9.3 Kembata Alaba Tembaro Zone.....	271
Table 5.9.4 Sidama Zone .....	271
Table 5.9.5 Gedio Zone.....	272
Table 5.9.6 North Omo Zone.....	272
Table 5.9.7 South Omo Zone.....	273
Table 5.9.8 Keficho- Shekicho Zone .....	273
Table 5.9.9 Bench-Maje Zone .....	274
Table 5.9.10 Yem Special Wereda Zone .....	274
Table 5.9.11 Amaro Special Wereda Zone.....	275
Table 5.9.12 Burji Special Wereda Zone.....	275
Table 5.9.13 Konso Special Wereda Zone .....	276
Table 5.9.14 Derashe Special Wereda Zone.....	276
Table 5.10. GAMBELA.....	277
Table 5.11. HARARI .....	277
Table 5.12. ADDIS ABABA .....	278
Table 5.13. DIRE DAWA.....	278

## **LIST OF FIGURES**

	<b><u>Page</u></b>
Figure 1. Estimates of Improved Seed, Irrigation, Pesticide and Fertilizer Applied Area for Major Crops of Private Peasant Holdings, NATIONAL, 1999/2000 (1992 E.C).....	21
Figure 2. Estimates of Fertilizers Applied Area by Type of Fertilizers for Major Crops of Private Peasant Holdings, NATIONAL, 1999/2000 (1992 E.C).....	86
Figure 3. Estimates of Quantity of Commercial Fertilizer Applied by Type for Major Crops of Private Peasant Holdings, NATIONAL, 1999/2000 (1992 E.C).....	150
Figure 4. Estimates of Quantity of DAP and UREA used by Region 1999/2000 (1992 E.C).....	152
Figure 5. Estimates of Quantity of Seed by Type and Region, 1999/2000 (1992 E.C).....	215



## **PART I**

### **INTRODUCTION AND OBJECTIVES OF THE SURVEY**

#### **1. Introduction**

The issue of food security has continual national importance in Ethiopia. To achieve social and political stability the government has to be able to create and maintain food security by issuing the appropriate agricultural policy. Agricultural statistics is just one element that enters into this policy to formulate, monitor, assess and evaluate the policy. The collection of reliable, comprehensive and timely data on agriculture is thus essential for the above purposes. In this regard the Central Statistical Authority (CSA) has exerted effort to provide policy makers and users with reliable and timely agricultural data.

This report contains survey results on agricultural practices such as use of improved seeds, irrigation, application of pesticides and fertilizers with in the private peasant holding sector of the economy. The report consists of three parts where Part I encompasses the objectives of this annual survey, Part II includes coverage and content of the survey, sample design, field organization, training of field staff, method of data collection and Part III deals with survey estimates of farm inputs applied areas as well as the quantities of inputs applied.

Estimation procedures and formulations for estimates of totals and variances for the agricultural practices and crop areas during the main (Meher) season are presented in Appendix I and estimates of the standard errors with the corresponding coefficients of variations (CVs) for farm inputs applied area and quantity of inputs applied are presented in Appendix II.

## **2. OBJECTIVES OF THE SURVEY**

The general objective of CSA's Agricultural Sample Survey (AgSS) is to collect basic quantitative information on the country's agriculture that is considered essential for development planning, socio-economic policy formulation and other purposes. The AgSS is composed of four components: crop production forecast survey, Meher season survey, livestock survey, and Belg season crop production survey.

In particular, the objectives of the Meher season farm management practices survey are to estimate the total farm inputs applied area and quantity of inputs applied by type for major temporary and permanent crops. This report is based on the private peasant holdings in the sedentary rural areas of the country, further sub-divided by regions and zones.

## **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 used a sampling frame which was designed to cover the sedentary rural agricultural population in all regions of the country (urban and nomadic areas were not included in the survey). A breakdown of the sample distribution as expressed by regions, zones and weredas is shown in table A. A total of 56 zones and 415 weredas were actually covered by the survey.

The area sampling unit used for this survey is defined as an Enumeration Area (EA) as defined for the 1994 Population and Housing Census. for the 1999/2000 AgSS a total of 1450 E.As was selected from all regions of the country. Due to various reasons 5 E.As were not covered in the survey which resulted in the survey actually covering 1445 E.As. From each of the selected E.As a representative sample of forty agricultural households was selected to estimate the various agricultural population items of interest of the sampled E.A.

Of these forty agricultural households, the first twenty-five were used for obtaining information on area under crops, Meher and Belg season

production of major crops, land use, agricultural practices, crop damage, and quantity of agricultural inputs used. It is important to note that of the total forty agricultural households sampled in each of the selected E.As, data on crop cutting were collected for only the fifteen households (11<sup>th</sup> - 25<sup>th</sup> households selected) for the area and production survey.

Table A Area Coverage of the 1999/2000 Agricultural Sample Survey

REGION	NUMBER OF ZONES / SP. WEREDAS			NUMBER OF WEREDAS		
	TOTAL	COVERED	NOT COVERED	TOTAL <sup>3</sup>	COVERED	NOT COVERED
TIGRAY <sup>1</sup>	5	4	1	33	33	-
AFAR <sup>2</sup>	5	3	2	8	8	-
AMHARA <sup>1</sup>	11	10	1	93	92	1
OROMIYA	12	12	-	171	170	1
SOMALIE <sup>2</sup>	9	3	6	9	9	-
BENISHANGUL GUMUZ	3	3	-	18	18	-
SNNP	14	14	-	73	73	-
GAMBELA <sup>2</sup>	4	3	1	5	5	-
HARARI	1	1	-	1	1	-
ADDIS ABABA <sup>1</sup>	6	2	4	5	5	-
DIRE DAWA	1	1	-	1	1	-
TOTAL	71	56	15	417	415	2

**Note**

1= Zones not covered in these regions are urban.

2 = Zones not covered in these regions are not inhabited by significant number of sedentary population.

3 = Numbers of total weredas signify those weredas in covered zones of the respective regions.

SNNPR = Southern Nations, Nationalities and Peoples Region



## **2. Concepts and and Definitions**

In order to collect standardized data of acceptable quality, the same concepts and definitions must be used by all field enumerators during data collections. Hence some of the more important concepts and definitions used in the survey are given below.

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

**Household**: a household may be either;

- a) a one person household, that is a person who makes provisions for his own living without combining with any other person to form part of a mufti-person household or
- b) a mufti-person household, that is, a group of two or more persons who live together and make common provisions for food or other essentials of 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. These persons are taken as members of the household.

**Agricultural Household** : a household is considered an 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 combination with others.

**Holder** a holder is a person who exercises management control over the operations of the agricultural holding and makes the major decision regarding the utilization of the available resources. He has primary technical and economic responsibility for the holding. He may operate the holding directly as an owner or as a manager. Under conditions of traditional agricultural holding the holder may be regarded as the person, who with or without the help of others, operates land 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 the right to determine the utilization of the products.

**Holding** : a holding is all the land and / or livestock kept which is used wholly or partly for agricultural production and is operated as one legal entity by one person alone, or with others without regard to management, organization, size or location.

**Size of Holding** : in this report the size of holding is determined by total area under all different crops such as area under temporary crops and permanent crops.

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

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

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

**Belg season crop** : any crop harvested between the months of Megabit (March) and Nehase (August).

**Temporary crops** : crops which are grown in less than a year's time, sometimes only a few months with an objective to sow or replant again for additional production following the current harvest. Continuously grown crops planted in rotation are also considered temporary crops since each is harvested and destroyed by ploughing in preparation for each successive crop.

**Permanent crops** : are crops which are grown and occupy land for a long period of time, not requiring replanting for several years after each harvest. All fruit trees (i.e. oranges, mandarin, banana, etc) and trees for beverages

(i.e coffee, tea, etc) are considered permanent crops, but meadows and pastures are excluded.

### **3. SAMPLE DESIGN**

The 1999/2000 (1992 E.C.) Meher season Agricultural Sample Survey covered the rural part of the country except two zones in Afar Region, one zone in Gambella Region and six zones in Somalie Region that are predominantly nomadic. A two-stage stratified sample design was used to select the sample. Each zone/special wereda was adopted as stratum for which major findings of the survey are reported except the four regions; namely, Gambela, Harari, Addis Ababa and Dire Dawa which were considered as strata/reporting levels. The primary sampling units (PSUs) were enumeration areas (EAs) and agricultural households were the secondary sampling units.

The survey questionnaires were administered to all agricultural holders within the sample households. A fixed number of sample EAs was determined for each stratum/reporting level based on precision of major estimates and cost considerations. Within each stratum EAs were selected using probability proportional to size; size being total number of households in the EAs as obtained from the 1994 Population and Housing Census. From each sample EA, 40 agricultural households were systematically selected for the annual agricultural sample survey from a fresh list of households prepared at the beginning of the field work of the annual agricultural

survey. Of the forty agricultural households, the first twenty five were used for obtaining information on area under crops, Meher and Belg season production of crops, land use, agricultural practices, crop damage, and quantity of agricultural inputs used. It is important to note that of the total forty agricultural households sampled in each of the selected EAs, data on crop cutting were collected for only the fifteen households (11<sup>th</sup>-25<sup>th</sup> households selected).

A total of 1,450 EAs (2.9 % of the total EAs in the rural areas of the country) was selected for the survey. However 5 EAs were closed for various reasons beyond the control of the Authority and the survey succeeded in covering 1445 (99.7 %) EAs. With respect to ultimate sampling units, for the Meher season agricultural sample survey, it was planned to cover 36,250 agricultural households. The response rate was found to be 98.5 % . Estimation procedures of parameters of interest (total and ratio) and their sampling error is presented in Appendix I.

#### **4. FIELD ORGANIZATION**

All the 22 Branch Statistical Offices of the CSA participated in the survey undertaking, especially in organizing the second stage training, in deploying the field staff to their respective sites of assignment, in supervising the data collection, and retrieving completed questionnaires and submitting them to the head office for data processing. They were also responsible in administering the financial and logistic aspect of the survey within the

the head office for data processing. They were also responsible in administering the financial and logistic aspect of the survey within the areas of their assignment. In the data collection of the survey, a total of 1559 enumerators and 331 field supervisors were involved with an average supervisor-enumerator ratio of 1-to-5. To accomplish the data collection operation, all the enumerators were supplied with the necessary survey equipment at the completion of the training. To assist the data collection activities in deployment, supervision and retrieval of completed questionnaires, a total of 123 four-wheel vehicles were used. The following table shows distribution of the field staff and vehicles by branch offices.

**TABLE B :    DISTRIBUTION OF FIELD STAFF AND VEHICLES  
BY BRANCH OFFICES**

Branch office	Number of		
	Enumerators	Supervisors	Vehicles
Mekele	103	22	7
Asayita	66	15	5
Gondar	75	16	6
Debre Markos	94	20	8
Dessie	94	20	7
Debre Birhan	61	13	5
Nazreth	50	11	4
Ambo	66	15	5
Nekemte	66	15	6
Jima	66	15	7
Goba	49	12	4
Asebe Teferi	50	11	4
Jijiga	66	15	4
Asosa	84	19	6
Awasa	112	22	8
Mizan Teferi	66	14	6
Arba Minch	122	22	8
Hosana	127	25	7
Gambela	33	7	5
Harar	49	10	4
Addis Ababa	28	6	4
Dire Dawa	33	6	3
Total	1559	331	123

## **5. TRAINING OF FIELD STAF**

The field staff training program was carried out in two stages. The first stage consisted of training of staff from the head office, Branch Statitstical Office heads and the senior field supervisors. This training was given for a period of one week at CSA's headquarters in Addis Ababa. Many of these personnel trained in the first stage were assigned to conduct similar training for field supervisors and enumerators for fifteen days in all the twenty-two CSA branch offices which are distributed all over the country. During the 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, correct interviewing procedures, ... etc. The training of the enumerators and supervisors also included field practice to reinforce the understanding of concepts, definitions and theories discussed in the classroom with regard to field measurement and crop cutting methods.

## **6. METHOD OF DATA COLLECTION**

Data for the AgSS were recorded on questionnaires using both subjective and objective enumeration methods. Information on agricultural practices (application of fertilizers, pesticides, use of improved seeds and irrigation) were collected both subjectively by interviewing the holders in each



sampled household and objectively measuring the quantities of fertilizers and seeds used.

The objective measurement procedures for area measurement were carried out and data on farm inputs applied were objectively collected for the first twenty-five selected households from each sampled E.A in which all crop areas were physically measured using compass and measuring tape.

## **7. DATA PROCESSING**

### **7.1. Editing, Coding and Verification**

In order to insure the quality of the collected survey data an editing, coding and verification instruction manual was prepared and printed. Then 35 editor-coders and 20 verifiers were trained for two days in the editing, coding and verification operation using the aforementioned manual as a reference and teaching aid.

The completed questionnaires were edited, coded and later verified on a 100% basis before the questionnaires were passed over to the data entry unit. The editing, coding and verification exercise of all questionnaires was completed in about 40 days.

### **7.2. Data entry, Cleaning and Tabulations**

Before starting data entry professional staff of Agricultural Statistics Department prepared edit specifications for personal computers utilizing the

Integrated Microcomputer Processing Systems (IMPS) software for data consistency checking purposes.

The data on the coded questionnaires were then entered into personal computers using the edit specifications prepared earlier for this purpose. The data entry operation involved about 35 data encoders and it took 30 days to complete the job. Finally, tabulation was done on personal computers to produce results as indicated in the tabulation plan.

## **PART III**

### **SUMMARY OF SURVEY RESULTS**

#### **1. Area Under Different Farm Management Practices**

This part of the Agricultural Sample Survey report gives a picture of total crop area on which the private peasant holders applied agricultural inputs such as improved seeds, irrigation, pesticides and fertilizers in order to increase the volume and quality of crop production. The summary of results is presented below.

**Fertilizer** :- refers to any thing that is added to the soil and intended to increase the amount of plant nutrients available for crop growth. In this survey two types of fertilizers (Natural and Chemical) are normally covered. The Natural fertilizer consists of the farm yard manure and wood ashes while the Chemical types consist of DAP (Di-Ammonium Phosphate) and UREA (Ammonium Nitrate).

**Pesticides** :- are chemicals that are useful for the control, mitigation or elimination of pests which are detrimental to crops. Pesticides include insecticides and herbicides.

**Area irrigated** :- refers to the practice where an area of land is purposely and actually provided with water, other than by rain to improve the

production of crops. The uncontrolled flooding of land by the overflow of rivers or streams is not considered to be irrigation.

**Improved seeds** :- are defined as a crop variety which gives a significantly higher yield and better quality compared to locally produced varieties of seeds.

**Summary Table A. Area Under Farm Management Practices 1999/2000 (1992 E.C)**

Practices	Area ('000 HA)
Use of fertilizer	3544.54
Use of pesticides	455.45
Use of improved seeds	329.38
Use of irrigation	81.14

### **1.1 Total Fertilizer Applied Area**

Although fertilizer is one of the very important agricultural inputs used to increase production only 3.54 million hectares (38.81%) of the total cultivated crop area had fertilizer applied on it at national level. Out of this total fertilizer applied area 3.28 million hectares (92.50%) was reported to have been under temporary crops and the remaining 265.74 thousand hectares (7.50%) was under permanent crops. See Table 1.1

## **1.2 Total Pesticide Applied Area**

As shown in Table 1.1 the total cultivated crop area in 1999/2000 (1992 E.C) Meher season was about 9.13 million hectares at national level. Out of this pesticide was applied to only 4.99% of the total crop area. The total pesticide applied on temporary crop area was estimated at about 447.50 thousand hectares (98.25%) of the total pesticide applied area while the total pesticide applied on permanent crop area was 7.95 thousand hectares (1.75%) of the total pesticide applied area. The largest pesticide applied crop area was reported to have been under teff (39.93%) followed by wheat (29.82%).

## **1.3 Total Improved Seed Applied Area**

As illustrated in Table 1.1 the total cultivated crop area (temporary and permanent) was about 9.13 million hectares. Of this cultivated crop area, improved seeds were applied to 329.38 thousand hectares (3.61%). This indicates that the private peasant holders use mostly indigenous seeds which may be due to the cost and / or inadequate availability of improved seeds. Out of the total improved seed applied area, about 311.45 thousand hectares (94.56%) was under temporary crops and the remaining (5.44%) was under permanent crops. For details refer to Table 1.1

## **1.4 Total Irrigated Area**

Of the total cultivated area, the total irrigated area at national level was 81.14 thousand hectares (0.89%). Of the total irrigated crop area about 59.56 thousand hectares (73.40%) was under temporary crops while 21.58 thousand hectares (26.60%) was under permanent crops. Out of the total irrigated area under temporary crops 22.87% was covered by maize followed by sorghum 14.19%. Similarly of the total irrigated area under permanent crops 8.28% was covered by Chat followed by Coffee 7.84% (see Table 1.1).

### **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 coefficients of variations (i.e. they are less reliable ). However they are incorporated in the total estimates.
3. "-" in tables represents data not reported.

TABLE 1.1

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

National

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	6,746.04	73.86	302.80	91.93	42.85	52.81	424.59	93.22	3,004.01	84.75
Teff	2,123.25	23.25	25.40	7.71	5.23	6.45	181.85	39.93	1,124.80	31.73
Barely	794.10	8.69	.27	.08	4.63	5.71	35.59	7.81	320.28	9.04
Wheat	1,025.09	11.22	57.42	17.43	1.78	2.19	135.81	29.82	669.45	18.89
Maize	1,407.03	15.40	216.84	65.83	18.56	22.87	36.68	8.05	640.70	18.08
Sorghum	994.67	10.89	2.87	.87	11.51	14.19	26.56	5.83	101.31	2.86
Millet	360.23	3.94	-	-	1.07	1.32	6.67	1.46	134.22	3.79
Oats	41.67	.46	-	-	**	**	1.43	.31	13.25	.37
PULSES	1,044.91	11.44	1.80	35.63	2.89	3.56	16.75	3.68	138.32	3.90
Horse Beans	359.10	3.93	**	**	.17	.21	**	**	69.63	1.96
Field Peas	152.20	1.67	**	**	**	**	.88	.19	27.15	.77
Haricot Beans	166.02	1.82	.15	.05	.81	1.00	1.96	.43	28.55	.81
Chick Peas	184.79	2.02	.95	.29	1.16	1.43	1.71	.38	3.66	.10
Lentils	72.22	.79	**	.01	**	**	.47	.10	8.09	.23
Vetch	110.58	1.21	-	-	**	**	**	**	1.24	.03
OILSEEDS	408.11	4.47	**	**	.43	.53	3.61	.79	31.83	.90
Neug	256.53	2.81	-	-	-	-	**	**	10.02	.28
Lin Seed	74.12	.81	**	**	**	**	**	**	4.52	.13
Rape seed	20.36	.22	-	-	.07	.22	**	**	11.99	.34
Ground Nuts	13.55	.15	**	**	**	**	.02	-	1.88	.05
Sun Flower	5.23	.06	-	-	**	**	**	**	.74	.02
Sesame	38.19	.42	-	-	**	**	**	**	**	**
Castor Bean	**	**	-	-	**	**	-	-	-	-
OTHERS	272.39	2.98	**	**	13.39	16.50	2.55	.56	104.64	2.95
Fenugreek	16.26	.18	-	-	**	**	**	**	1.66	.05
Spices	62.90	.69	**	**	2.08	2.56	.62	.14	20.78	.59
Potatoes	47.43	.52	-	-	.80	.99	.74	.16	27.94	.79
Other Temporary	145.80	1.60	**	**	10.36	12.77	1.09	.24	54.26	1.53
ALL TEMPORARY	8,471.45	92.75	311.45	94.56	59.56	73.40	447.50	98.25	3,278.80	92.50
Chat	88.57	.97	-	-	6.72	8.28	2.89	.63	31.95	.90
Coffee	245.28	2.69	17.71	5.38	6.36	7.84	2.12	.47	39.50	1.11
Enset	266.78	2.92	-	-	.80	.99	2.65	.58	178.90	5.05
Cotton	12.07	.13	-	-	**	**	**	**	1.75	.05
Tobacco	3.98	.04	**	**	**	**	**	**	1.44	.04
Fruits	19.67	.22	**	**	**	**	**	**	4.27	.12
Other Permanent	25.84	.28	**	**	3.75	4.62	**	**	7.93	.22
TOTAL PERMANENT	662.19	7.25	17.93	5.44	21.58	26.60	7.95	1.75	265.74	7.50
ALL CROPS	9,133.64	100.00	329.38	100.00	81.14	100.00	455.45	100.00	3,544.54	100.00

TABLE 1.2

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY REGION FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

('000 HA)

REGION	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
TIGRAY	563.37	6.17	6.95	2.11	6.37	7.85	7.42	1.63	204.80	5.78
AFAR	19.45	.21	.06	.02	4.02	4.96	.99	.22	.95	.03
AMHARA	3,167.79	34.68	81.93	24.87	26.39	32.54	60.89	13.37	954.05	26.92
OROMIYA	4,017.59	43.99	147.78	44.87	28.15	34.71	323.41	71.01	1,807.50	50.99
SOMALIE	55.94	.61	4.24	1.29	4.90	6.04	.16	.04	2.88	.08
BENSHANGUL-GUMUZ	180.54	1.98	2.09	.63	1.45	1.79	1.94	.43	19.69	.56
S.N.N.P.R.	1,088.47	11.92	80.85	24.55	8.36	10.31	58.87	12.93	540.32	15.24
GAMBELA	15.98	.17	3.01	.91	-	-	.22	.05	.08	-
HARARI	9.19	.10	.37	.11	.48	.59	1.16	.25	5.84	.16
ADDIS ABABA	8.20	.09	.50	.15	.07	.09	.22	.05	6.86	.19
DIRE DAWA	7.13	.08	1.60	.49	.92	1.13	.16	.04	1.56	.04
TOTAL	9,133.65	100.00	329.38	100.00	81.11	100.00	455.44	100.00	3,544.53	100.00



FIG.1 ESTIMATES OF IMPROVED SEED ,IRRIGATION,PESTICIDE AND FERTILIZER APPLIED AREA  
FOR MAJOR CROPS OF PRIVATE PEASANT HOLDINGS,NATIONAL ,1999/2000(1992 E.C.)

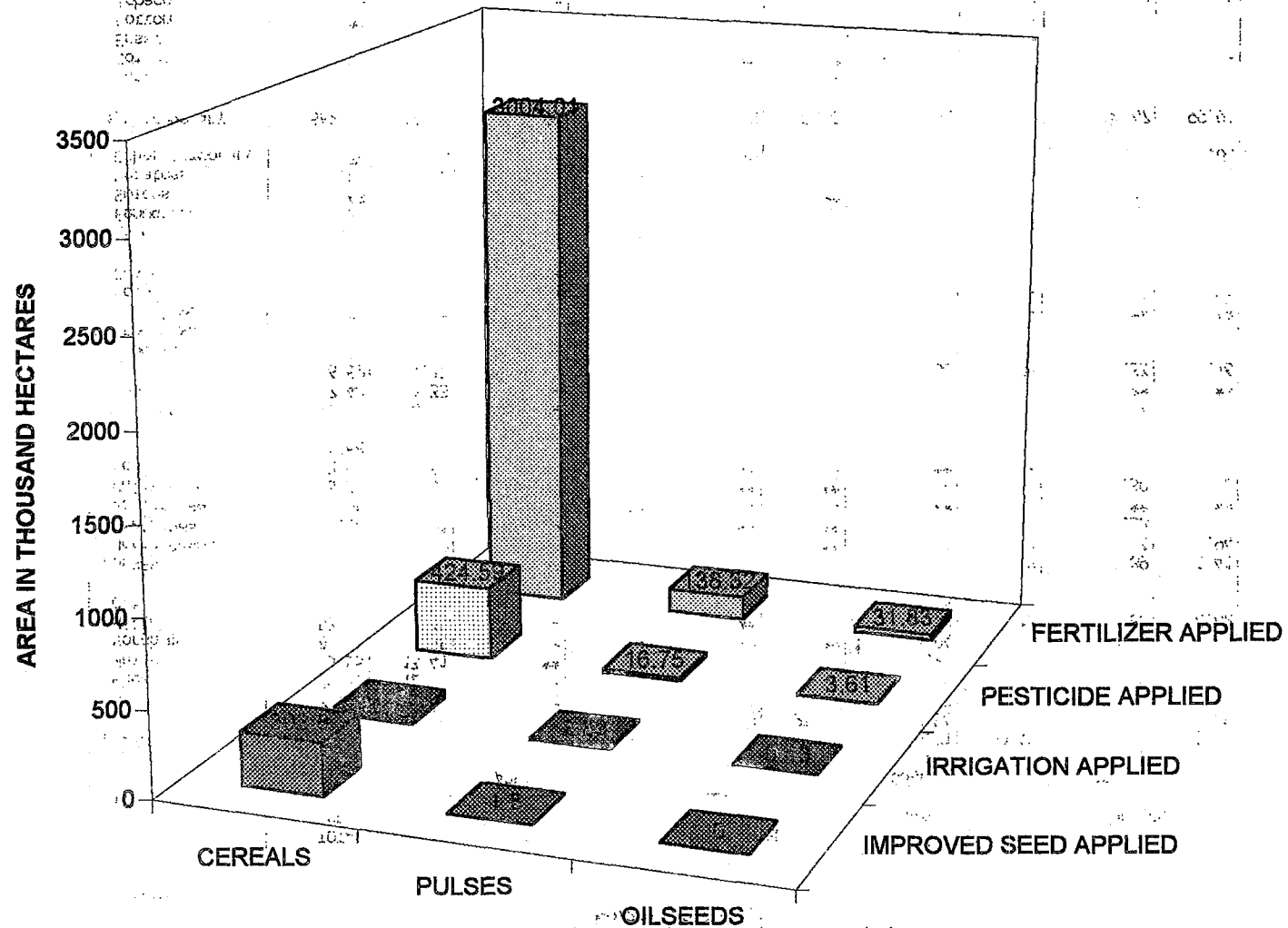


TABLE 1.3

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Tigray

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	489.49	86.89	6.86	98.85	5.10	80.06	6.71	90.19	199.35	97.34
Teff	126.44	22.44	**	**	1.49	23.39	2.54	34.14	54.16	26.45
Barely	77.90	13.83	**	**	**	**	.32	4.30	33.58	16.40
Wheat	70.57	12.53	4.71	67.87	**	**	.89	11.96	30.29	14.79
Maize	75.55	13.41	**	**	**	**	1.25	16.80	49.36	24.10
Sorghum	81.57	14.48	**	**	**	**	1.04	13.98	14.30	6.98
Millet	57.21	10.15	**	**	**	**	**	**	17.66	8.62
Oats	**	**	-	-	-	-	**	**	-	-
PULSES	43.15	7.66	.03	.43	**	**	**	**	2.89	1.41
Horse Beans	12.35	2.19	-	-	**	**	**	**	1.93	.94
Field Peas	5.14	.91	-	-	**	**	**	**	.38	.19
Haricot Beans	2.68	.48	**	**	-	-	**	**	**	**
Chick Peas	13.38	2.37	-	-	**	**	-	-	.30	.15
Lentils	2.92	.52	-	-	**	**	**	**	**	**
Vetch	6.68	1.19	-	-	-	-	-	-	**	**
OILSEEDS	27.97	4.96	-	-	-	-	.13	1.75	**	**
Neug	7.48	1.33	-	-	-	-	**	**	**	**
Lin Seed	6.59	1.17	-	-	-	-	.08	1.08	.33	.16
Rape seed	**	**	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	**	**
Sesame	13.79	2.45	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	1.74	.31	**	**	**	**	-	-	.28	.14
Fenugreek	.26	.05	-	-	-	-	-	-	**	**
Spices	.63	.11	-	-	**	**	-	-	**	**
Potatoes	.09	.02	-	-	-	-	-	-	**	**
Other Temporary	.76	.13	**	**	.19	2.98	-	-	.12	.06
ALL TEMPORARY	562.35	99.82	6.94	100.00	6.18	97.02	7.44	100.00	204.67	99.94
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	**	**	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.09	.02	-	-	.06	.94	-	-	**	**
Other Permanent	.90	.16	-	-	.12	1.88	-	-	**	**
TOTAL PERMANENT	1.02	.18	-	-	.19	2.98	-	-	.13	.06
ALL CROPS	563.37	100.00	6.94	100.00	6.37	100.00	7.44	100.00	204.80	100.00

TABLE 1.3.1

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

West Tigray Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	139.77	85.92	.30	100.00	.31	81.58	3.45	98.57	48.14	96.28
Teff	33.93	20.86	.22	73.33	**	**	**	**	16.81	33.62
Barely	**	**	-	-	**	**	-	-	**	**
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	22.60	13.89	**	**	**	**	1.15	32.86	14.77	29.54
Sorghum	43.29	26.61	**	**	-	-	.84	24.00	5.31	10.62
Millet	38.41	23.61	-	-	-	-	**	**	11.15	22.30
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	5.40	3.32	-	-	-	-	-	-	**	**
Horse Beans	1.62	1.00	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.11	.07	-	-	-	-	-	-	-	-
Chick Peas	3.23	1.99	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	-	-
Vetch	**	**	-	-	-	-	-	-	-	-
OILSEEDS	16.90	10.39	-	-	-	-	**	**	**	**
Neug	4.08	2.51	-	-	-	-	**	**	**	**
Lin Seed	1.21	.74	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.28	.17	-	-	**	**	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	.23	.14	-	-	**	**	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	**	**	-	-	-	-	-	-	-	-
ALL TEMPORARY	162.35	99.80	.30	100.00	.32	84.21	3.50	100.00	49.95	99.90
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.06	.04	-	-	**	**	-	-	**	**
Other Permanent	.26	.16	-	-	**	**	-	-	**	**
TOTAL PERMANENT	.32	.20	-	-	**	**	-	-	**	**
ALL CROPS	162.67	100.00	.30	100.00	.38	100.00	3.50	100.00	50.00	100.00

TABLE 1.3.2

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Central Tigray Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	166.96	89.48	.38	100.00	.54	78.26	1.91	78.93	92.03	98.24
Teff	51.68	27.70	**	**	**	**	**	**	28.38	30.29
Barely	15.37	8.24	-	-	**	**	**	**	7.77	8.29
Wheat	14.66	7.86	**	**	**	**	**	**	7.36	7.86
Maize	**	**	-	-	**	**	**	**	**	**
Sorghum	26.81	14.37	-	-	-	-	**	**	8.37	8.93
Millet	18.55	9.94	-	-	**	**	-	-	6.46	6.90
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	12.39	6.64	-	-	**	**	**	**	1.20	1.28
Horse Beans	5.49	2.94	-	-	**	**	-	-	.96	1.02
Field Peas	.70	.38	-	-	-	-	-	-	**	**
Haricot Beans	1.90	1.02	-	-	-	-	**	**	**	**
Chick Peas	2.97	1.59	-	-	-	-	-	-	.06	.06
Lentils	.41	.22	-	-	-	-	**	**	**	**
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	6.19	3.32	-	-	-	-	**	**	.32	.34
Neug	3.20	1.72	-	-	-	-	-	-	**	**
Lin Seed	1.80	.96	-	-	-	-	**	**	.24	.26
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.60	.32	-	-	**	**	-	-	.12	.13
Fenugreek	**	**	-	-	-	-	-	-	-	-
Spices	**	**	-	-	**	**	-	-	**	**
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Temporary	.31	.17	-	-	**	**	-	-	**	**
ALL TEMPORARY	186.14	99.76	.38	100.00	.64	92.75	2.42	100.00	93.67	99.99
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	**	**	-	-	-	-
Other Permanent	**	**	-	-	**	**	-	-	**	**
TOTAL PERMANENT	**	**	-	-	**	**	-	-	**	**
ALL CROPS	186.58	100.00	.38	100.00	.69	100.00	2.42	100.00	93.68	100.00

TABLE 1.3.3

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

East Tigray Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	63.04	80.23	2.15	99.54	**	**	.54	77.14	36.02	96.31
Teff	5.51	7.01	**	**	-	-	-	-	**	**
Barely	31.27	39.80	**	**	**	**	.25	35.71	19.48	52.09
Wheat	25.06	31.90	2.13	98.61	**	**	**	**	14.45	38.64
Maize	**	**	-	-	-	-	-	-	**	**
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	**	**	-	-	-	-	-	-	**	**
Oats	**	**	-	-	-	-	-	-	-	-
PULSES	13.09	16.66	-	-	-	-	**	**	1.19	3.18
Horse Beans	2.40	3.05	-	-	-	-	**	**	.65	1.74
Field Peas	1.44	1.83	-	-	-	-	**	**	.26	.70
Haricot Beans	**	**	-	-	-	-	-	-	-	-
Chick Peas	4.44	5.65	-	-	-	-	-	-	**	**
Lentils	.89	1.13	-	-	-	-	-	-	**	**
Vetch	3.90	4.96	-	-	-	-	-	-	**	**
OILSEEDS	2.13	2.71	-	-	-	-	**	**	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	2.13	2.71	-	-	-	-	**	**	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.17	.22	**	**	**	**	-	-	**	**
Fenugreek	**	**	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Temporary	**	**	**	**	**	**	-	-	**	**
ALL TEMPORARY	78.43	99.82	2.16	100.00	**	**	.70	100.00	37.32	99.79
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	78.57	100.00	2.16	100.00	**	**	.70	100.00	37.40	100.00

TABLE 1.3.4

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

South Tigray Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	119.73	88.36	4.04	98.30	3.96	79.04	.79	100.00	23.16	97.64
Teff	35.32	26.06	**	**	**	**	**	**	7.02	29.60
Barely	30.23	22.31	-	-	.05	1.00	-	-	6.26	26.39
Wheat	30.35	22.40	2.45	59.61	.49	9.78	**	**	8.44	35.58
Maize	12.22	9.02	**	**	2.19	43.71	-	-	.84	3.54
Sorghum	11.39	8.41	**	**	.06	1.20	**	**	**	**
Millet	**	**	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	**	**	-	-
PULSES	12.26	9.05	**	**	.67	13.37	-	-	.39	1.64
Horse Beans	2.84	2.10	-	-	.07	1.40	-	-	.23	.97
Field Peas	2.65	1.96	-	-	.03	.60	-	-	.10	.42
Haricot Beans	**	**	**	**	-	-	-	-	-	-
Chick Peas	2.74	2.02	-	-	.55	10.98	-	-	**	**
Lentils	**	**	-	-	.02	.40	-	-	-	-
Vetch	1.81	1.34	-	-	-	-	-	-	-	-
OILSEEDS	2.74	2.02	-	-	-	-	-	-	**	**
Neug	**	**	-	-	-	-	-	-	-	-
Lin Seed	1.44	1.06	-	-	-	-	-	-	**	**
Rape seed	**	**	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	**	**
Sesame	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	**	**	.29	5.79	-	-	**	**
Fenugreek	.06	.04	-	-	-	-	-	-	**	**
Spices	**	**	-	-	.15	2.99	-	-	**	**
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Temporary	**	**	**	**	.14	2.79	-	-	**	**
ALL TEMPORARY	135.40	99.92	4.11	100.00	4.92	98.20	.79	100.00	23.72	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	.01	.20	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	.02	.40	-	-	-	-
Other Permanent	.08	.06	-	-	.06	1.20	-	-	-	-
TOTAL PERMANENT	.11	.08	-	-	.09	1.80	-	-	-	-
ALL CROPS	135.51	100.00	4.11	100.00	5.01	100.00	.79	100.00	23.72	100.00

TABLE 1.4

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Afar

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	17.66	90.94	-	-	3.73	93.02	.94	94.00	.84	88.42
Teff	6.61	34.04	-	-	**	**	.76	76.00	.34	35.79
Barely	**	**	-	-	-	-	-	-	**	**
Wheat	**	**	-	-	-	-	-	-	-	-
Maize	6.38	32.85	-	-	3.56	88.78	.09	9.00	.21	22.11
Sorghum	4.29	22.09	-	-	**	**	**	**	.24	25.26
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	1.02	5.25	-	-	-	-	**	**	**	**
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	**	**	-	-	-	-	**	**	-	-
Chick Peas	.40	2.06	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.36	1.85	-	-	**	**	**	**	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	.12	.62	-	-	-	-	**	**	**	**
Sesame	.13	.67	-	-	**	**	**	**	**	**
Castor Bean	**	**	-	-	**	**	-	-	-	-
OTHERS	**	**	**	**	**	**	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	.03	.15	-	-	**	**	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	**	**	**	**	**	**	-	-	**	**
ALL TEMPORARY	19.19	98.82	**	**	3.98	99.25	.99	99.00	.95	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	**	**	**	**	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.01	.05	-	-	.01	.25	-	-	-	-
Other Permanent	**	**	-	-	**	**	-	-	-	-
TOTAL PERMANENT	**	**	-	-	.03	.75	**	**	-	-
ALL CROPS	19.42	100.00	**	**	4.01	100.00	1.00	100.00	.95	100.00

TABLE 1.4.1

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Zone 1 (Afar) Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	3.66	96.57	-	-	3.65	96.56	**	**	.04	100.00
Teff	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	3.51	92.61	-	-	3.50	92.59	**	**	.04	100.00
Sorghum	**	**	-	-	**	**	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	**	**	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	**	**	-	-	-	-
Castor Bean	**	**	-	-	**	**	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	3.79	100.00	-	-	3.78	100.00	**	**	.04	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-
ALL CROPS	3.79	100.00	-	-	3.78	100.00	**	**	.04	100.00



TABLE 1.4.2

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Zone 3 (Afar) Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	12.80	88.70	-	-	**	**	.88	93.62	.80	87.91
Teff	5.96	41.30	-	-	**	**	.76	80.85	.34	37.36
Barely	**	**	-	-	-	-	-	-	**	**
Wheat	**	**	-	-	-	-	-	-	-	-
Maize	2.35	16.29	-	-	**	**	**	**	.17	18.68
Sorghum	4.11	28.48	-	-	**	**	**	**	.24	26.37
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	1.02	7.07	-	-	-	-	**	**	**	**
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.61	4.23	-	-	-	-	**	**	-	-
Chick Peas	.40	2.77	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.23	1.59	-	-	-	-	**	**	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	.12	.83	-	-	-	-	**	**	**	**
Sesame	**	**	-	-	-	-	**	**	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	.06	100.00	**	**	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	.03	.21	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	**	**	.06	100.00	**	**	-	-	**	**
ALL TEMPORARY	14.20	98.41	.06	100.00	**	**	.93	98.94	.91	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	**	**	**	**	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.01	.07	-	-	.01	4.55	-	-	-	-
Other Permanent	**	**	-	-	**	**	-	-	-	-
TOTAL PERMANENT	**	**	-	-	.03	13.64	**	**	-	-
ALL CROPS	14.43	100.00	.06	100.00	**	**	.94	100.00	.91	100.00

TABLE 1.5

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Amhara

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	2,368.39	74.76	80.48	98.24	16.56	62.75	50.10	82.23	886.95	92.97
Teff	906.06	28.60	12.36	15.09	2.11	8.00	16.37	26.87	417.69	43.78
Barely	268.16	8.47	-	-	3.87	14.66	1.98	3.25	43.09	4.52
Wheat	314.04	9.91	16.62	20.29	.89	3.37	**	**	144.95	15.19
Maize	309.41	9.77	51.47	62.83	6.14	23.27	4.49	7.37	170.79	17.90
Sorghum	356.79	11.26	**	**	**	**	7.32	12.01	15.11	1.58
Millet	202.47	6.39	-	-	**	**	3.85	6.32	94.48	9.90
Oats	11.46	.36	-	-	**	**	**	**	.84	.09
PULSES	504.08	15.91	.32	.39	**	**	**	**	25.71	2.69
Horse Beans	170.54	5.38	-	-	**	**	**	**	16.16	1.69
Field Peas	68.65	2.17	-	-	-	-	**	**	2.99	.31
Haricot Beans	53.61	1.69	-	-	**	**	**	**	1.47	.15
Chick Peas	104.34	3.29	**	**	**	**	.43	.71	.83	.09
Lentils	44.24	1.40	**	**	**	**	**	**	**	**
Vetch	62.70	1.98	-	-	**	**	-	-	**	**
OILSEEDS	193.63	6.11	-	-	.14	.53	**	**	15.88	1.66
Neug	140.05	4.42	-	-	-	-	**	**	7.77	.81
Lin Seed	24.19	.76	-	-	-	-	**	**	.80	.08
Rape seed	9.34	.29	-	-	**	**	**	**	5.93	.62
Ground Nuts	**	**	-	-	-	-	-	-	-	-
Sun Flower	4.33	.14	-	-	**	**	**	**	.57	.06
Sesame	**	**	-	-	**	**	**	**	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	70.72	2.23	**	**	3.78	14.32	.23	.38	19.46	2.04
Fenugreek	7.88	.25	-	-	**	**	**	**	.27	.03
Spices	24.25	.77	**	**	**	**	**	**	7.99	.84
Potatoes	16.80	.53	-	-	.26	.99	-	-	6.51	.68
Other Temporary	21.79	.69	**	**	1.83	6.93	**	**	4.69	.49
ALL TEMPORARY	3,136.82	99.02	81.55	99.55	22.01	83.40	60.68	99.59	948.00	99.37
Chat	1.88	.06	-	-	.30	1.14	.07	.11	.73	.08
Coffee	**	**	**	**	2.53	9.59	**	**	1.63	.17
Enset	**	**	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	**	**	-	-	**	**
Tobaco	.43	.01	-	-	-	-	**	**	.03	-
Fruits	1.33	.04	**	**	.52	1.97	**	**	.32	.03
Other Permanent	7.92	.25	**	**	.99	3.75	**	**	2.06	.22
TOTAL PERMANENT	30.99	.98	**	**	4.38	16.60	.25	.41	6.05	.63
ALL CROPS	3,167.81	100.00	81.92	100.00	26.39	100.00	60.93	100.00	954.05	100.00

TABLE 1.5.1

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

North Gonder Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	410.24	78.69	6.23	100.00	**	**	8.95	95.01	74.45	94.50
Teff	110.82	21.26	**	**	**	**	2.06	21.87	37.82	48.01
Barely	37.45	7.18	-	-	**	**	-	-	**	**
Wheat	22.01	4.22	**	**	-	-	**	**	**	**
Maize	36.78	7.05	3.42	54.90	-	-	1.67	17.73	13.72	17.42
Sorghum	156.64	30.05	-	-	-	-	3.24	34.39	**	**
Millet	45.55	8.74	-	-	-	-	**	**	10.64	13.51
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	50.64	9.71	-	-	-	-	-	-	.34	.43
Horse Beans	17.20	3.30	-	-	-	-	-	-	.27	.34
Field Peas	9.33	1.79	-	-	-	-	-	-	-	-
Haricot Beans	**	**	-	-	-	-	-	-	-	-
Chick Peas	17.70	3.40	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	-	-
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	43.37	8.32	-	-	-	-	**	**	**	**
Neug	27.78	5.33	-	-	-	-	**	**	**	**
Lin Seed	2.99	.57	-	-	-	-	-	-	**	**
Rape seed	.76	.15	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	.70	.13	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	10.10	1.94	-	-	.16	35.56	-	-	1.40	1.78
Fenugreek	**	**	-	-	-	-	-	-	-	-
Spices	**	**	-	-	**	**	-	-	**	**
Potatoes	2.33	.45	-	-	**	**	-	-	**	**
Other Temporary	**	**	-	-	.06	13.33	-	-	**	**
ALL TEMPORARY	514.35	98.66	6.23	100.00	.44	97.78	9.42	100.00	77.39	98.24
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	**	**	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	1.02	.20	-	-	-	-	-	-	**	**
TOTAL PERMANENT	**	**	-	-	**	**	-	-	**	**
ALL CROPS	521.34	100.00	6.23	100.00	.45	100.00	9.42	100.00	78.78	100.00

TABLE 1.5.2

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

South Gondar Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	297.09	72.85	3.12	99.36	**	**	5.39	89.68	82.90	94.09
Teff	112.26	27.53	**	**	-	-	3.04	50.58	44.56	50.57
Barely	56.11	13.76	-	-	**	**	.38	6.32	**	**
Wheat	35.25	8.64	**	**	-	-	**	**	8.97	10.18
Maize	32.65	8.01	**	**	**	**	**	**	13.49	15.31
Sorghum	11.13	2.73	-	-	-	-	**	**	**	**
Millet	49.59	12.16	-	-	-	-	-	-	11.43	12.97
Oats	**	**	-	-	-	-	-	-	-	-
PULSES	66.07	16.20	-	-	**	**	**	**	.37	.42
Horse Beans	21.57	5.29	-	-	-	-	**	**	**	**
Field Peas	6.09	1.49	-	-	-	-	**	**	-	-
Haricot Beans	**	**	-	-	-	-	-	-	-	-
Chick Peas	20.57	5.04	-	-	**	**	**	**	-	-
Lentils	1.88	.46	-	-	-	-	-	-	**	**
Vetch	6.94	1.70	-	-	**	**	-	-	-	-
OILSEEDS	26.73	6.55	-	-	-	-	**	**	.52	.59
Neug	19.45	4.77	-	-	-	-	-	-	**	**
Lin Seed	6.62	1.62	-	-	-	-	-	-	-	-
Rape seed	.53	.13	-	-	-	-	**	**	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	**	**
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	16.87	4.14	**	**	**	**	-	-	4.22	4.79
Fenugreek	**	**	-	-	**	**	-	-	-	-
Spices	3.01	.74	**	**	**	**	-	-	**	**
Potatoes	7.80	1.91	-	-	-	-	-	-	3.01	3.42
Other Temporary	5.42	1.33	**	**	**	**	-	-	**	**
ALL TEMPORARY	406.76	99.75	3.14	100.00	1.74	93.55	6.01	100.00	88.01	99.89
Chat	**	**	-	-	**	**	-	-	-	-
Coffee	**	**	-	-	**	**	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	-	-
Other Permanent	.81	.20	-	-	.05	2.69	-	-	.08	.09
TOTAL PERMANENT	1.03	.25	-	-	.12	6.45	-	-	.10	.11
ALL CROPS	407.79	100.00	3.14	100.00	1.86	100.00	6.01	100.00	88.11	100.00

TABLE 1.5.3

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

North Wolo Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	151.20	78.24	1.50	98.04	**	**	.26	46.43	17.21	93.84
Teff	57.21	29.61	**	**	**	**	**	**	3.91	21.32
Barely	28.69	14.85	-	-	-	-	**	**	4.47	24.37
Wheat	30.54	15.80	1.41	92.16	-	-	**	**	7.55	41.17
Maize	9.57	4.95	-	-	**	**	-	-	.82	4.47
Sorghum	23.21	12.01	-	-	**	**	-	-	**	**
Millet	.47	.24	-	-	**	**	-	-	.13	.71
Oats	1.51	.78	-	-	-	-	-	-	**	**
PULSES	35.46	18.35	**	**	**	**	.30	53.57	.79	4.31
Horse Beans	12.06	6.24	-	-	**	**	**	**	.69	3.76
Field Peas	5.92	3.06	-	-	-	-	**	**	**	**
Haricot Beans	**	**	-	-	-	-	**	**	**	**
Chick Peas	7.63	3.95	**	**	**	**	-	-	-	-
Lentils	5.54	2.87	-	-	-	-	**	**	-	-
Vetch	3.50	1.81	-	-	-	-	-	-	-	-
OILSEEDS	3.23	1.67	-	-	**	**	-	-	.04	.22
Neug	.52	.27	-	-	-	-	-	-	-	-
Lin Seed	2.38	1.23	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	**	**	-	-	**	**
Sesame	**	**	-	-	**	**	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	2.50	1.29	-	-	**	**	-	-	.14	.76
Fenugreek	1.37	.71	-	-	-	-	-	-	-	-
Spices	.26	.13	-	-	**	**	-	-	**	**
Potatoes	.38	.20	-	-	-	-	-	-	**	**
Other Temporary	.49	.25	-	-	**	**	-	-	.06	.33
ALL TEMPORARY	192.39	99.56	1.52	99.35	**	**	.56	100.00	18.18	99.13
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	**	**	**	**	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	**	**	-	-	**	**
Other Permanent	.41	.21	-	-	.14	2.75	-	-	**	**
TOTAL PERMANENT	.85	.44	**	**	.30	5.88	-	-	**	**
ALL CROPS	193.24	100.00	1.53	100.00	**	**	.56	100.00	18.34	100.00

TABLE 1.5.4

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

South Wolo Zone

( '000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	239.73	72.48	4.00	99.26	**	**	1.84	95.83	51.19	91.79
Teff	96.68	29.23	**	**	**	**	**	**	21.65	38.82
Barely	26.73	8.08	-	-	**	**	**	**	3.39	6.08
Wheat	56.85	17.19	3.86	95.78	**	**	**	**	19.65	35.23
Maize	14.59	4.41	-	-	**	**	**	**	2.00	3.59
Sorghum	37.78	11.42	-	-	**	**	**	**	4.11	7.37
Millet	**	**	-	-	-	-	-	-	**	**
Oats	6.96	2.10	-	-	**	**	**	**	**	**
PULSES	78.57	23.76	-	-	**	**	**	**	2.68	4.81
Horse Beans	30.03	9.08	-	-	-	-	-	-	1.61	2.89
Field Peas	13.47	4.07	-	-	-	-	**	**	.21	.38
Haricot Beans	7.48	2.26	-	-	-	-	-	-	**	**
Chick Peas	10.32	3.12	-	-	**	**	**	**	**	**
Lentils	6.40	1.93	-	-	-	-	**	**	**	**
Vetch	10.87	3.29	-	-	-	-	-	-	**	**
OILSEEDS	5.27	1.59	-	-	-	-	-	-	**	**
Neug	4.16	1.26	-	-	-	-	-	-	**	**
Lin Seed	.76	.23	-	-	-	-	-	-	-	-
Rape seed	**	**	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	**	**
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	5.12	1.55	**	**	**	**	-	-	1.18	2.12
Fenugreek	3.10	.94	-	-	-	-	-	-	**	**
Spices	1.06	.32	-	-	.13	4.09	-	-	.60	1.08
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Temporary	.90	.27	**	**	**	**	-	-	**	**
ALL TEMPORARY	328.69	99.38	4.03	100.00	2.79	87.74	1.91	99.48	55.11	98.82
Chat	**	**	-	-	**	**	**	**	**	**
Coffee	**	**	-	-	**	**	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.03	.01	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	**	**	-	-	**	**
Other Permanent	.39	.12	-	-	**	**	-	-	.12	.22
TOTAL PERMANENT	2.06	.62	-	-	**	**	**	**	**	**
ALL CROPS	330.75	100.00	4.03	100.00	3.18	100.00	1.92	100.00	55.77	100.00

TABLE 1.5.5

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

North Shewa(Amhara) Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	285.16	70.59	1.91	99.48	**	**	**	**	111.56	88.20
Teff	114.73	28.40	**	**	**	**	5.42	19.00	40.53	32.04
Barely	26.27	6.50	-	-	**	**	**	**	**	**
Wheat	**	**	1.79	93.23	-	-	**	**	**	**
Maize	8.89	2.20	-	-	**	**	**	**	**	**
Sorghum	42.83	10.60	-	-	**	**	**	**	1.61	1.27
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	106.02	26.25	**	**	**	**	**	**	**	**
Horse Beans	46.55	11.52	-	-	-	-	**	**	**	**
Field Peas	5.07	1.26	-	-	-	-	**	**	-	-
Haricot Beans	5.01	1.24	-	-	**	**	**	**	**	**
Chick Peas	16.57	4.10	-	-	**	**	.09	.32	.28	.22
Lentils	**	**	**	**	-	-	-	-	**	**
Vetch	7.51	1.86	-	-	-	-	-	-	-	-
OILSEEDS	5.84	1.45	-	-	**	**	-	-	.36	.28
Neug	1.78	.44	-	-	-	-	-	-	**	**
Lin Seed	1.66	.41	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	**	**	-	-	.29	.23
Sesame	**	**	-	-	**	**	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	3.38	.84	-	-	.48	10.02	**	**	**	**
Fenugreek	.70	.17	-	-	**	**	**	**	**	**
Spices	**	**	-	-	**	**	-	-	**	**
Potatoes	**	**	-	-	-	-	-	-	-	-
Other Temporary	1.30	.32	-	-	**	**	-	-	**	**
ALL TEMPORARY	400.40	99.12	1.92	100.00	**	**	28.40	99.54	126.05	99.65
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	**	**	-	-	**	**	**	**	**	**
Enset	**	**	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.46	.11	-	-	.32	6.68	-	-	**	**
Other Permanent	1.53	.38	-	-	.35	7.31	**	**	**	**
TOTAL PERMANENT	3.54	.88	-	-	1.47	30.69	**	**	**	**
ALL CROPS	403.94	100.00	1.92	100.00	4.79	100.00	28.53	100.00	126.49	100.00

TABLE 1.5.6

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

East Gojam Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	365.20	74.62	21.73	95.35	.51	38.93	3.96	86.09	223.14	96.14
Teff	198.03	40.46	**	**	-	-	**	**	152.86	65.86
Barely	45.40	9.28	-	-	**	**	**	**	9.12	3.93
Wheat	58.04	11.86	6.57	28.83	**	**	**	**	36.88	15.89
Maize	42.21	8.62	**	**	**	**	**	**	24.00	10.34
Sorghum	**	**	-	-	-	-	**	**	**	**
Millet	**	**	-	-	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	88.60	18.10	**	**	-	-	**	**	3.29	1.42
Horse Beans	19.15	3.91	-	-	-	-	**	**	1.81	.78
Field Peas	8.95	1.83	-	-	-	-	**	**	**	**
Haricot Beans	14.98	3.06	-	-	-	-	-	-	**	**
Chick Peas	22.05	4.51	**	**	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	-	-
Vetch	21.86	4.47	-	-	-	-	-	-	**	**
OILSEEDS	23.11	4.72	-	-	-	-	**	**	2.59	1.12
Neug	15.86	3.24	-	-	-	-	-	-	**	**
Lin Seed	4.29	.88	-	-	-	-	-	-	**	**
Rape seed	2.72	.56	-	-	-	-	**	**	1.56	.67
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	**	**
Sesame	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	10.15	2.07	**	**	**	**	**	**	2.13	.92
Fenugreek	1.10	.22	-	-	-	-	-	-	**	**
Spices	2.41	.49	**	**	**	**	**	**	**	**
Potatoes	2.73	.56	-	-	**	**	-	-	**	**
Other Temporary	3.91	.80	**	**	**	**	**	**	**	**
ALL TEMPORARY	487.06	99.52	22.64	99.34	**	**	4.59	99.78	231.15	99.59
Chat	**	**	-	-	**	**	-	-	**	**
Coffee	**	**	**	**	.04	3.05	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	**	**	-	-	-	-	-	-	-	-
Fruits	**	**	**	**	**	**	-	-	**	**
Other Permanent	1.72	.35	**	**	**	**	**	**	.72	.31
TOTAL PERMANENT	2.34	.48	**	**	**	**	**	**	.95	.41
ALL CROPS	489.40	100.00	22.79	100.00	**	**	4.60	100.00	232.10	100.00



TABLE 1.5.7

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

West Gojam Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	323.99	71.87	37.12	99.68	.92	28.22	4.99	96.15	217.87	91.95
Teff	115.72	25.67	**	**	-	-	1.96	37.76	74.39	31.40
Barely	11.64	2.58	-	-	**	**	**	**	3.83	1.62
Wheat	6.84	1.52	-	-	-	-	**	**	3.78	1.60
Maize	116.38	25.82	35.99	96.64	.56	17.18	.81	15.61	90.20	38.07
Sorghum	13.21	2.93	-	-	-	-	**	**	-	-
Millet	59.34	13.16	-	-	**	**	**	**	45.61	19.25
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	50.85	11.28	-	-	**	**	-	-	3.25	1.37
Horse Beans	14.89	3.30	-	-	-	-	-	-	2.37	1.00
Field Peas	10.29	2.28	-	-	-	-	-	-	.59	.25
Haricot Beans	**	**	-	-	**	**	-	-	**	**
Chick Peas	7.19	1.60	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	-	-
Vetch	**	**	-	-	-	-	-	-	-	-
OILSEEDS	49.10	10.89	-	-	-	-	**	**	8.83	3.73
Neug	42.15	9.35	-	-	-	-	**	**	5.25	2.22
Lin Seed	3.17	.70	-	-	-	-	-	-	**	**
Rape seed	3.65	.81	-	-	-	-	-	-	3.08	1.30
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	**	**
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	15.39	3.41	**	**	**	**	**	**	5.83	2.46
Fenugreek	.02	-	-	-	-	-	-	-	-	-
Spices	9.30	2.06	.01	.03	**	**	**	**	3.85	1.62
Potatoes	.94	.21	-	-	**	**	-	-	.54	.23
Other Temporary	5.13	1.14	**	**	**	**	-	-	1.44	.61
ALL TEMPORARY	439.33	97.46	37.21	99.92	1.95	59.82	5.19	100.00	235.78	99.51
Chat	.05	.01	-	-	**	**	-	-	**	**
Coffee	8.96	1.99	**	**	**	**	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	.54	.12	-	-	**	**	-	-	**	**
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	**	**	-	-	-	-
Other Permanent	1.76	.39	-	-	**	**	-	-	.58	.24
TOTAL PERMANENT	**	**	**	**	**	**	-	-	1.16	.49
ALL CROPS	450.77	100.00	37.24	100.00	3.26	100.00	5.19	100.00	236.94	100.00

TABLE 1.5.8

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Waghamera Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	73.46	75.79	**	**	**	**	.55	75.34	3.12	97.50
Teff	19.80	20.43	**	**	**	**	.47	64.38	.42	13.13
Barely	20.55	21.20	-	-	-	-	**	**	.16	5.00
Wheat	8.63	8.90	**	**	-	-	**	**	**	**
Maize	1.48	1.53	-	-	-	-	**	**	.28	8.75
Sorghum	22.95	23.68	-	-	-	-	-	-	**	**
Millet	**	**	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	18.89	19.49	-	-	**	**	**	**	**	**
Horse Beans	6.65	6.86	-	-	-	-	**	**	**	**
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	3.49	3.60	-	-	-	-	**	**	-	-
Chick Peas	.49	.51	-	-	.06	40.00	-	-	-	-
Lentils	1.95	2.01	-	-	.04	26.67	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	4.47	4.61	-	-	-	-	**	**	**	**
Neug	.56	.58	-	-	-	-	-	-	-	-
Lin Seed	1.31	1.35	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	1.33	1.37	-	-	-	-	**	**	**	**
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	-	-
Fenugreek	**	**	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	**	**	-	-	-	-	-	-	-	-
ALL TEMPORARY	96.85	99.93	**	**	.13	86.67	.73	100.00	3.19	99.69
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Erset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	-	-
Tobaco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	**	**	-	-	**	**
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	**	**	-	-	.02	13.33	-	-	**	**
ALL CROPS	96.92	100.00	**	**	.15	100.00	.73	100.00	3.20	100.00

TABLE 1.5.9

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Agewawia Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	175.00	79.29	4.74	96.34	4.79	78.14	**	**	101.30	92.91
Teff	69.38	31.43	-	-	**	**	**	**	**	**
Barely	14.88	6.74	-	-	3.27	53.34	-	-	8.49	7.79
Wheat	3.41	1.54	**	**	**	**	-	-	2.23	2.05
Maize	34.19	15.49	4.54	92.28	**	**	**	**	23.23	21.31
Sorghum	**	**	-	-	-	-	**	**	**	**
Millet	46.48	21.06	-	-	**	**	**	**	26.53	24.33
Oats	.13	.06	-	-	**	**	-	-	**	**
PULSES	6.54	2.96	-	-	**	**	**	**	**	**
Horse Beans	2.09	.95	-	-	-	-	-	-	.43	.39
Field Peas	2.88	1.30	-	-	-	-	-	-	**	**
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	**	**	**	**	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	31.70	14.36	-	-	**	**	**	**	2.12	1.94
Neug	27.77	12.58	-	-	-	-	-	-	1.07	.98
Lin Seed	.95	.43	-	-	-	-	**	**	**	**
Rape seed	1.66	.75	-	-	**	**	-	-	1.01	.93
Ground Nuts	**	**	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	6.81	3.09	-	-	**	**	**	**	3.31	3.04
Fenugreek	.05	.02	-	-	-	-	-	-	.03	.03
Spices	.51	.23	-	-	**	**	**	**	**	**
Potatoes	2.52	1.14	-	-	.10	1.63	-	-	1.94	1.78
Other Temporary	3.73	1.69	-	-	**	**	-	-	.98	.90
ALL TEMPORARY	220.05	99.70	4.74	96.34	5.72	93.31	2.33	99.57	108.49	99.50
Chat	**	**	-	-	**	**	-	-	**	**
Coffee	**	**	**	**	**	**	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.08	.04	-	-	**	**	**	**	**	**
Other Permanent	.24	.11	-	-	**	**	-	-	.14	.13
TOTAL PERMANENT	.67	.30	**	**	**	**	**	**	**	**
ALL CROPS	220.72	100.00	4.92	100.00	6.13	100.00	2.34	100.00	109.03	100.00

TABLE 1.5.10

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Oromia Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	47.32	89.42	**	**	**	**	**	**	4.23	81.35
Teff	11.43	21.60	**	**	-	-	**	**	.79	15.19
Barely	.46	.87	-	-	-	-	-	-	**	**
Wheat	.49	.93	-	-	-	-	-	-	**	**
Maize	12.66	23.92	-	-	**	**	**	**	1.25	24.04
Sorghum	21.68	40.97	.03	75.00	-	-	**	**	1.74	33.46
Millet	.16	.30	-	-	-	-	-	-	**	**
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	2.43	4.59	-	-	-	-	**	**	**	**
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	1.22	2.31	-	-	-	-	**	**	**	**
Chick Peas	**	**	-	-	-	-	**	**	-	-
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.77	1.46	-	-	-	-	**	**	**	**
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	-	-
Sesame	.61	1.15	-	-	-	-	**	**	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.38	.72	-	-	-	-	-	-	.05	.96
Fenugreek	.01	.02	-	-	-	-	-	-	-	-
Spices	.31	.59	-	-	-	-	-	-	.03	.58
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	.06	.11	-	-	-	-	-	-	.02	.38
ALL TEMPORARY	50.90	96.18	**	**	.03	13.64	**	**	4.59	88.27
Chat	1.14	2.15	-	-	**	**	**	**	**	**
Coffee	**	**	-	-	**	**	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	-	-
Tobacco	.40	.76	-	-	-	-	**	**	**	**
Fruits	.08	.15	-	-	.03	13.64	-	-	**	**
Other Permanent	**	**	-	-	.01	4.55	-	-	**	**
TOTAL PERMANENT	2.02	3.82	-	-	**	**	.07	4.43	**	**
ALL CROPS	52.92	100.00	**	**	.22	100.00	**	**	5.20	100.00

TABLE 1.6

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Oromia

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	3,060.42	76.18	133.22	90.15	12.97	46.07	312.66	96.67	1,601.70	88.62
Teff	891.83	22.20	5.99	4.05	.87	3.09	139.48	43.13	563.29	31.16
Barely	385.76	9.60	**	**	**	**	31.81	9.84	218.96	12.11
Wheat	565.85	14.08	26.28	17.78	**	**	102.04	31.55	435.60	24.10
Maize	747.50	18.61	100.04	67.70	4.46	15.84	22.47	6.95	297.61	16.47
Sorghum	368.03	9.16	**	.51	6.95	24.69	14.61	4.52	55.51	3.07
Millet	71.80	1.79	-	-	**	**	.88	.27	18.39	1.02
Oats	29.65	.74	-	-	**	**	1.37	.42	12.34	.68
PULSES	387.22	9.64	1.28	.87	.22	.78	4.10	1.27	75.08	4.15
Horse Beans	144.82	3.60	**	**	**	**	2.08	.64	39.97	2.21
Field Peas	55.62	1.38	**	**	-	-	**	**	18.10	1.00
Haricot Beans	65.48	1.63	**	**	.14	.50	.80	.25	11.34	.63
Chick Peas	57.59	1.43	**	**	**	**	**	**	1.59	.09
Lentils	23.94	.60	**	**	-	-	**	**	3.46	.19
Vetch	39.77	.99	-	-	-	-	**	**	.62	.03
OILSEEDS	157.86	3.93	**	**	**	**	**	**	12.04	.67
Neug	92.34	2.30	-	-	-	-	**	**	1.21	.07
Lin Seed	42.44	1.06	**	**	**	**	**	**	3.25	.18
Rape seed	10.73	.27	-	-	-	-	**	**	5.91	.33
Ground Nuts	9.92	.25	**	.01	-	-	-	-	**	**
Sun Flower	**	**	-	-	-	-	-	-	**	**
Sesame	2.05	.05	-	-	**	**	-	-	**	**
Castor Bean	**	**	-	-	-	-	-	-	-	-
OTHERS	100.31	2.50	**	**	4.99	17.73	.97	.30	38.24	2.12
Fenugreek	7.61	.19	-	-	**	**	**	**	1.18	.07
Spices	18.23	.45	-	-	.26	.92	**	**	3.64	.20
Potatoes	18.01	.45	-	-	.52	1.85	**	**	12.28	.68
Other Temporary	56.46	1.41	**	**	4.14	14.71	.45	.14	21.14	1.17
ALL TEMPORARY	3,705.81	92.24	136.40	92.31	18.31	65.04	320.20	99.00	1,727.06	95.55
Chat	61.49	1.53	-	-	5.39	19.15	1.05	.32	19.90	1.10
Coffee	144.43	3.59	11.31	7.65	1.53	5.44	1.24	.38	8.59	.48
Enset	87.16	2.17	-	-	**	**	**	**	47.96	2.65
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	2.13	.05	-	-	**	**	-	-	.75	.04
Fruits	7.94	.20	-	-	.40	1.42	**	**	1.20	.07
Other Permanent	8.62	.21	**	**	2.40	8.53	**	**	2.00	.11
TOTAL PERMANENT	311.78	7.76	11.37	7.69	9.84	34.96	3.22	1.00	80.41	4.45
ALL CROPS	4,017.59	100.00	147.77	100.00	28.15	100.00	323.42	100.00	1,807.47	100.00

TABLE 1.6.1

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

West Welega Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	251.97	73.04	22.72	92.58	.70	73.68	3.95	95.64	80.14	95.11
Teff	35.62	10.32	**	**	-	-	**	**	18.91	22.44
Barely	4.26	1.23	-	-	-	-	-	-	.60	.71
Wheat	8.56	2.48	-	-	-	-	-	-	.18	.21
Maize	101.03	29.28	22.41	91.32	**	**	3.08	74.58	42.40	50.32
Sorghum	63.02	18.27	**	**	-	-	**	**	7.22	8.57
Millet	39.39	11.42	-	-	**	**	**	**	10.83	12.85
Oats	**	**	-	-	-	-	-	-	-	-
PULSES	17.85	5.17	-	-	-	-	**	**	1.49	1.77
Horse Beans	6.01	1.74	-	-	-	-	**	**	.68	.81
Field Peas	.79	.23	-	-	-	-	-	-	**	**
Haricot Beans	9.43	2.73	-	-	-	-	-	-	.66	.78
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	10.05	2.91	-	-	-	-	-	-	**	**
Neug	9.69	2.81	-	-	-	-	-	-	**	**
Lin Seed	**	**	-	-	-	-	-	-	-	-
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	-	-
Castor Bean	**	**	-	-	-	-	-	-	-	-
OTHERS	6.97	2.02	**	**	-	-	-	-	1.75	2.08
Fenugreek	**	**	-	-	-	-	-	-	-	-
Spices	1.45	.42	-	-	-	-	-	-	.33	.39
Potatoes	1.65	.48	-	-	-	-	-	-	.70	.83
Other Temporary	3.83	1.11	**	**	-	-	-	-	.72	.85
ALL TEMPORARY	286.84	83.14	22.79	92.87	.70	73.68	3.97	96.13	83.47	99.06
Chat	.91	.26	-	-	-	-	-	-	**	**
Coffee	53.41	15.48	**	**	-	-	.16	3.87	.33	.39
Enset	.77	.22	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	**	**	-	-	**	**
Fruits	2.05	.59	-	-	-	-	-	-	.25	.30
Other Permanent	.75	.22	-	-	**	**	-	-	**	**
TOTAL PERMANENT	58.15	16.86	**	**	**	**	.16	3.87	.79	.94
ALL CROPS	344.99	100.00	24.54	100.00	.95	100.00	4.13	100.00	84.26	100.00

TABLE 1.6.2

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

East Welega Zone

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TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	326.91	77.28	26.81	99.96	**	**	10.81	95.58	154.10	94.98
Teff	129.02	30.50	**	**	-	-	2.19	19.36	76.42	47.10
Barely	14.51	3.43	-	-	-	-	**	**	2.24	1.38
Wheat	21.24	5.02	**	**	-	-	**	**	6.81	4.20
Maize	107.42	25.39	**	**	**	**	5.71	50.49	60.30	37.17
Sorghum	31.80	7.52	-	-	-	-	**	**	.99	.61
Millet	22.78	5.39	-	-	-	-	**	**	7.31	4.51
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	21.12	4.99	-	-	-	-	**	**	3.12	1.92
Horse Beans	14.17	3.35	-	-	-	-	**	**	2.53	1.56
Field Peas	6.32	1.49	-	-	-	-	-	-	.57	.35
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	**	**	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	58.02	13.72	-	-	**	**	**	**	1.96	1.21
Neug	52.76	12.47	-	-	-	-	**	**	.91	.56
Lin Seed	2.19	.52	-	-	**	**	-	-	**	**
Rape seed	1.73	.41	-	-	-	-	-	-	.92	.57
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	.03	.02
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	7.71	1.82	-	-	-	-	**	**	2.61	1.61
Fenugreek	**	**	-	-	-	-	-	-	.07	.04
Spices	**	**	-	-	-	-	**	**	1.43	.88
Potatoes	.88	.21	-	-	-	-	-	-	.52	.32
Other Temporary	1.04	.25	-	-	-	-	-	-	.59	.36
ALL TEMPORARY	413.76	97.81	26.81	99.96	**	**	11.17	98.76	161.79	99.72
Chat	.30	.07	-	-	**	**	-	-	**	**
Coffee	**	**	.01	.04	-	-	**	**	**	**
Enset	**	**	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	.87	.21	-	-	**	**	-	-	**	**
Other Permanent	.72	.17	-	-	**	**	-	-	.16	.10
TOTAL PERMANENT	9.26	2.19	.01	.04	**	**	**	**	.45	.28
ALL CROPS	423.02	100.00	26.82	100.00	.12	100.00	11.31	100.00	162.24	100.00

TABLE 1.6.3

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Illibabor Zone

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TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	133.12	76.17	12.43	88.47	.02	100.00	7.32	96.06	38.16	97.47
Teff	39.47	22.59	-	-	-	-	4.32	56.69	14.23	36.35
Barely	1.58	.90	-	-	-	-	**	**	-	-
Wheat	1.05	.60	**	**	-	-	**	**	**	**
Maize	64.55	36.94	12.42	88.40	.02	100.00	1.93	25.33	22.89	58.47
Sorghum	21.42	12.26	-	-	-	-	**	**	.84	2.15
Millet	4.97	2.84	-	-	-	-	**	**	-	-
Oats	**	**	-	-	-	-	-	-	-	-
PULSES	10.05	5.75	-	-	-	-	**	**	**	**
Horse Beans	3.17	1.81	-	-	-	-	**	**	**	**
Field Peas	2.42	1.38	-	-	-	-	-	-	**	**
Haricot Beans	4.24	2.43	-	-	-	-	**	**	**	**
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	**	**	-	-	-	-	-	-	-	-
OILSEEDS	1.77	1.01	-	-	-	-	-	-	**	**
Neug	1.63	.93	-	-	-	-	-	-	**	**
Lin Seed	.13	.07	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	**	**	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	1.42	.81	-	-	-	-	**	**	.12	.31
Fenugreek	.04	.02	-	-	-	-	-	-	-	-
Spices	.97	.56	-	-	-	-	**	**	.09	.23
Potatoes	**	**	-	-	-	-	-	-	-	-
Other Temporary	.36	.21	-	-	-	-	-	-	.03	.08
ALL TEMPORARY	146.36	83.75	12.43	88.47	.02	100.00	7.43	97.51	38.71	98.88
Chat	1.45	.83	-	-	-	-	**	**	.12	.31
Coffee	24.03	13.75	**	**	-	-	**	**	.08	.20
Enset	1.79	1.02	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	.82	.47	-	-	-	-	-	-	.08	.20
Other Permanent	.21	.12	-	-	-	-	-	-	.02	.05
TOTAL PERMANENT	28.40	16.25	**	**	-	-	**	**	.44	1.12
ALL CROPS	174.76	100.00	14.05	100.00	.02	100.00	7.62	100.00	39.15	100.00



TABLE 1.6.4

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Jimma Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	283.35	77.75	17.04	87.25	**	**	44.58	99.35	112.73	86.46
Teff	125.25	34.37	-	-	.10	29.41	35.47	79.05	65.97	50.60
Barely	12.55	3.44	-	-	-	-	.43	.96	**	**
Wheat	14.13	3.88	-	-	-	-	2.69	6.00	**	**
Maize	90.73	24.90	17.04	87.25	**	**	2.76	6.15	38.12	29.24
Sorghum	36.55	10.03	-	-	-	-	**	**	.70	.54
Millet	**	**	-	-	-	-	**	**	**	**
Oats	1.03	.28	-	-	-	-	**	**	**	**
PULSES	26.61	7.30	**	**	-	-	**	**	**	**
Horse Beans	**	**	-	-	-	-	**	**	**	**
Field Peas	5.12	1.40	-	-	-	-	-	-	**	**
Haricot Beans	**	**	**	**	-	-	**	**	**	**
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	**	**	-	-	-	-	**	**	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	8.29	2.27	-	-	-	-	**	**	**	**
Neug	**	**	-	-	-	-	-	-	-	-
Lin Seed	1.14	.31	-	-	-	-	**	**	**	**
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	10.26	2.82	**	**	**	**	**	**	4.85	3.72
Fenugreek	**	**	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	.07	.05
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Temporary	9.31	2.55	**	**	**	**	**	**	4.72	3.62
ALL TEMPORARY	328.51	90.14	17.18	87.97	**	**	44.69	99.60	119.18	91.41
Chat	5.26	1.44	-	-	**	**	-	-	1.74	1.33
Coffee	18.88	5.18	2.35	12.03	**	**	**	**	1.10	.84
Enset	10.41	2.86	-	-	**	**	-	-	8.01	6.14
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	.67	.18	-	-	-	-	-	-	**	**
Other Permanent	.70	.19	-	-	-	-	-	-	.19	.15
TOTAL PERMANENT	35.94	9.86	2.35	12.03	**	**	**	**	11.20	8.59
ALL CROPS	364.45	100.00	19.53	100.00	.34	100.00	44.87	100.00	130.38	100.00

TABLE 1.6.5

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

West Shewa Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	438.74	77.30	14.52	96.86	**	**	86.04	97.37	299.70	89.10
Teff	232.63	40.99	**	**	-	-	53.83	60.92	179.19	53.27
Barely	55.49	9.78	-	-	-	-	10.03	11.35	34.09	10.13
Wheat	89.65	15.80	3.00	20.01	-	-	19.66	22.25	63.82	18.97
Maize	45.28	7.98	**	**	**	**	**	**	**	**
Sorghum	**	**	-	-	-	-	**	**	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	**	**	**	**
PULSES	69.80	12.30	**	**	**	**	**	**	6.78	2.02
Horse Beans	19.32	3.40	-	-	**	**	**	**	2.83	.84
Field Peas	4.24	.75	-	-	-	-	-	-	**	**
Haricot Beans	.17	.03	-	-	-	-	-	-	**	**
Chick Peas	27.18	4.79	**	**	-	-	-	-	**	**
Lentils	3.34	.59	-	-	-	-	-	-	1.10	.33
Vetch	15.55	2.74	-	-	-	-	-	-	**	**
OILSEEDS	19.63	3.46	-	-	-	-	**	**	1.50	.45
Neug	10.04	1.77	-	-	-	-	-	-	**	**
Lin Seed	6.44	1.13	-	-	-	-	**	**	**	**
Rape seed	**	**	-	-	-	-	**	**	.75	.22
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	7.70	1.36	-	-	**	**	**	**	2.86	.85
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	1.74	.31	-	-	**	**	**	**	**	**
Potatoes	1.29	.23	-	-	**	**	-	-	.67	.20
Other Temporary	3.66	.64	-	-	**	**	-	-	1.34	.40
ALL TEMPORARY	535.87	94.42	14.99	100.00	.98	85.96	88.12	99.73	310.84	92.41
Chat	1.33	.23	-	-	**	**	-	-	**	**
Coffee	.09	.02	-	-	**	**	-	-	**	**
Enset	**	**	-	-	**	**	**	**	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.17	.03	-	-	-	-	-	-	.10	.03
Fruits	**	**	-	-	-	-	-	-	-	-
Other Permanent	1.08	.19	-	-	**	**	-	-	.26	.08
TOTAL PERMANENT	31.68	5.58	-	-	**	**	**	**	**	**
ALL CROPS	567.55	100.00	14.99	100.00	1.14	100.00	88.36	100.00	336.38	100.00

TABLE 1.6.6

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

North Shewa(Oromia) Zone

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TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	240.41	75.48	3.35	88.62	.06	19.35	11.10	96.94	103.37	95.75
Teff	93.60	29.39	-	-	-	-	5.57	48.65	53.73	49.77
Barely	61.90	19.44	**	**	-	-	1.18	10.31	**	**
Wheat	66.10	20.75	3.20	84.66	-	-	4.15	36.24	41.42	38.37
Maize	3.49	1.10	-	-	.06	19.35	**	**	1.72	1.59
Sorghum	13.80	4.33	-	-	-	-	**	**	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	1.52	.48	-	-	-	-	-	-	**	**
PULSES	64.53	20.26	**	**	-	-	**	**	3.61	3.34
Horse Beans	25.35	7.96	**	**	-	-	**	**	2.93	2.71
Field Peas	8.06	2.53	**	**	-	-	-	-	**	**
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	8.45	2.65	-	-	-	-	-	-	-	-
Lentils	9.98	3.13	-	-	-	-	**	**	**	**
Vetch	12.44	3.91	-	-	-	-	-	-	**	**
OILSEEDS	11.24	3.53	-	-	-	-	**	**	.25	.23
Neug	7.94	2.49	-	-	-	-	**	**	**	**
Lin Seed	3.13	.98	-	-	-	-	-	-	**	**
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	**	**
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	1.77	.56	-	-	.05	16.13	-	-	.56	.52
Fenugreek	.96	.30	-	-	-	-	-	-	**	**
Spices	**	**	-	-	**	**	-	-	**	**
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Temporary	.66	.21	-	-	**	**	-	-	.20	.19
ALL TEMPORARY	317.95	99.83	3.78	100.00	.11	35.48	11.45	100.00	107.79	99.84
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	**	**	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	**	**	-	-	**	**	-	-	**	**
Other Permanent	.43	.14	-	-	**	**	-	-	.13	.12
TOTAL PERMANENT	.54	.17	-	-	**	**	-	-	.17	.16
ALL CROPS	318.49	100.00	3.78	100.00	.31	100.00	11.45	100.00	107.96	100.00

TABLE 1.6.7

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

East Shewa Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	273.63	78.12	12.64	94.19	**	**	32.03	95.78	175.57	89.00
Teff	100.07	28.57	**	**	-	-	19.47	58.22	84.15	42.66
Barely	9.91	2.83	-	-	-	-	1.60	4.78	6.61	3.35
Wheat	62.11	17.73	5.45	40.61	-	-	8.34	24.94	56.38	28.58
Maize	96.53	27.56	7.02	52.31	**	**	2.62	7.83	27.78	14.08
Sorghum	4.47	1.28	-	-	-	-	-	-	.39	.20
Millet	**	**	-	-	-	-	-	-	**	**
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	62.48	17.84	**	**	-	-	1.06	3.17	12.11	6.14
Horse Beans	6.52	1.86	-	-	-	-	**	**	**	**
Field Peas	5.19	1.48	**	**	-	-	**	**	**	**
Haricot Beans	23.99	6.85	**	**	-	-	**	**	6.61	3.35
Chick Peas	16.65	4.75	-	-	-	-	**	**	**	**
Lentils	5.06	1.44	-	-	-	-	**	**	.77	.39
Vetch	5.07	1.45	-	-	-	-	-	-	**	**
OILSEEDS	.74	.21	-	-	-	-	-	-	.04	.02
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	-	-
Rape seed	.27	.08	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	11.50	3.28	**	**	**	**	**	**	8.49	4.30
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	-	-	**	**	-	-	**	**
Potatoes	**	**	-	-	**	**	**	**	**	**
Other Temporary	4.57	1.30	**	**	**	**	**	**	3.36	1.70
ALL TEMPORARY	348.35	99.45	13.42	100.00	**	**	33.42	99.94	196.21	99.46
Chat	**	**	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	**	**	-	-	-	-	**	**	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.14	.04	-	-	-	-	-	-	**	**
Fruits	**	**	-	-	**	**	-	-	-	-
Other Permanent	.69	.20	-	-	**	**	-	-	.07	.04
TOTAL PERMANENT	1.93	.55	-	-	**	**	**	**	**	**
ALL CROPS	350.28	100.00	13.42	100.00	**	**	33.44	100.00	197.28	100.00

TABLE 1.6.8

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Arsi Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	519.90	81.63	6.66	87.75	**	**	85.72	97.73	410.99	87.69
Teff	89.37	14.03	-	-	-	-	16.15	18.41	59.41	12.68
Barely	140.00	21.98	-	-	**	**	13.47	15.36	128.82	27.49
Wheat	185.68	29.15	6.66	87.75	-	-	52.28	59.61	177.78	37.93
Maize	79.37	12.46	-	-	**	**	1.76	2.01	36.45	7.78
Sorghum	21.90	3.44	-	-	-	-	**	**	**	**
Millet	**	**	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	**	**	**	**
PULSES	68.32	10.73	-	-	**	**	1.08	1.23	41.10	8.77
Horse Beans	36.15	5.68	-	-	-	-	.77	.88	26.98	5.76
Field Peas	16.84	2.64	-	-	-	-	-	-	**	**
Haricot Beans	12.44	1.95	-	-	**	**	**	**	**	**
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	1.76	.28	-	-	-	-	-	-	**	**
Vetch	**	**	-	-	-	-	-	-	-	-
OILSEEDS	30.73	4.82	**	**	-	-	**	**	6.25	1.33
Neug	**	**	-	-	-	-	-	-	-	-
Lin Seed	22.50	3.53	**	**	-	-	**	**	2.16	.46
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	**	**
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	8.26	1.30	**	**	**	**	**	**	5.18	1.11
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	-	-	-	-	**	**	**	**
Potatoes	2.77	.43	-	-	**	**	**	**	2.13	.45
Other Temporary	4.14	.65	**	**	**	**	**	**	2.53	.54
ALL TEMPORARY	627.21	98.48	7.52	99.08	.97	35.02	87.62	99.90	463.52	98.90
Chat	**	**	-	-	**	**	**	**	**	**
Coffee	**	**	**	**	**	**	**	**	**	**
Enset	**	**	-	-	**	**	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.18	.03	-	-	-	-	-	-	**	**
Fruits	**	**	-	-	.12	4.33	**	**	**	**
Other Permanent	**	**	**	**	**	**	-	-	**	**
TOTAL PERMANENT	9.71	1.52	**	**	**	**	**	**	5.15	1.10
ALL CROPS	636.92	100.00	7.59	100.00	2.77	100.00	87.71	100.00	468.67	100.00

TABLE 1.6.9

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

West Harerge Zone

( '000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	141.90	69.82	4.70	66.29	8.09	63.50	2.00	82.64	26.59	70.34
Teff	6.59	3.24	**	**	**	**	**	**	**	**
Barely	3.73	1.84	-	-	-	-	-	-	.24	.63
Wheat	1.40	.69	**	**	-	-	**	**	**	**
Maize	63.19	31.09	4.01	56.56	**	**	**	**	14.92	39.47
Sorghum	65.31	32.14	-	-	**	**	**	**	6.75	17.86
Millet	1.15	.57	-	-	**	**	**	**	**	**
Oats	.53	.26	-	-	-	-	**	**	-	-
PULSES	12.86	6.33	.17	2.40	**	**	**	**	1.20	3.17
Horse Beans	4.90	2.41	-	-	-	-	**	**	**	**
Field Peas	.99	.49	-	-	-	-	-	-	**	**
Haricot Beans	5.40	2.66	**	**	.07	.55	-	-	.42	1.11
Chick Peas	1.02	.50	**	**	**	**	**	**	**	**
Lentils	.49	.24	**	**	-	-	-	-	**	**
Vetch	**	**	-	-	-	-	-	-	-	-
OILSEEDS	1.20	.59	-	-	**	**	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	.40	.20	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	**	**	-	-	-	-	-	-	**	**
Sun Flower	**	**	-	-	-	-	-	-	-	-
Sesame	.33	.16	-	-	**	**	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	11.40	5.61	**	**	.68	5.34	**	**	1.68	4.44
Fenugreek	.65	.32	-	-	**	**	-	-	**	**
Spices	**	**	-	-	**	**	**	**	**	**
Potatoes	.11	.05	-	-	-	-	**	**	**	**
Other Temporary	10.06	4.95	**	**	.55	4.32	**	**	1.35	3.57
ALL TEMPORARY	167.36	82.35	4.94	69.68	8.99	70.57	2.14	88.43	29.49	78.02
Chat	21.98	10.82	-	-	1.98	15.54	.26	10.74	4.29	11.35
Coffee	11.43	5.62	**	**	**	**	**	**	3.41	9.02
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.39	.19	-	-	**	**	-	-	.11	.29
Fruits	.57	.28	-	-	.18	1.41	-	-	**	**
Other Permanent	**	**	-	-	**	**	-	-	**	**
TOTAL PERMANENT	35.87	17.65	**	**	3.75	29.43	.28	11.57	8.31	21.98
ALL CROPS	203.23	100.00	7.09	100.00	12.74	100.00	2.42	100.00	37.80	100.00

TABLE 1.6.10

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

East Harerge Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	159.91	69.64	8.56	97.72	2.52	35.34	6.28	84.52	69.32	72.16
Teff	5.26	2.29	**	**	**	**	-	-	1.95	2.03
Barely	3.61	1.57	-	-	**	**	.07	.94	1.04	1.08
Wheat	11.64	5.07	**	**	**	**	.16	2.15	**	**
Maize	51.19	22.29	**	**	.77	10.80	1.61	21.67	26.86	27.96
Sorghum	86.81	37.80	**	**	1.38	19.35	4.44	59.76	31.10	32.38
Millet	-	-	-	-	-	-	-	-	-	-
Oats	1.40	.61	-	-	**	**	-	-	**	**
PULSES	10.61	4.62	-	-	.09	1.26	.30	4.04	2.90	3.02
Horse Beans	5.23	2.28	-	-	**	**	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	4.22	1.84	-	-	**	**	.30	4.04	2.26	2.35
Chick Peas	**	**	-	-	**	**	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	10.07	4.39	**	**	-	-	-	-	1.64	1.71
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	9.62	4.19	**	**	-	-	-	-	**	**
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	18.60	8.10	-	-	1.18	16.55	.11	1.48	8.04	8.37
Fenugreek	.46	.20	-	-	**	**	.01	.13	.06	.06
Spices	.09	.04	-	-	**	**	-	-	.03	.03
Potatoes	4.74	2.06	-	-	**	**	.08	1.08	3.30	3.44
Other Temporary	13.31	5.80	-	-	.99	13.88	.02	.27	4.65	4.84
ALL TEMPORARY	199.19	86.74	8.57	97.83	3.79	53.16	6.69	90.04	81.90	85.26
Chat	27.35	11.91	-	-	2.72	38.15	.71	9.56	12.63	13.15
Coffee	1.97	.86	**	**	**	**	.03	.40	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.31	.13	-	-	**	**	-	-	.16	.17
Fruits	**	**	-	-	**	**	-	-	**	**
Other Permanent	**	**	-	-	**	**	-	-	**	**
TOTAL PERMANENT	30.44	13.26	**	**	3.34	46.84	.74	9.96	14.16	14.74
ALL CROPS	229.63	100.00	8.76	100.00	7.13	100.00	7.43	100.00	96.06	100.00

TABLE 1.6.11

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Bale Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	236.82	83.95	2.55	92.73	**	**	21.81	96.98	122.75	95.59
Teff	26.43	9.37	**	**	**	**	2.24	9.96	4.97	3.87
Barely	63.60	22.54	-	-	-	-	4.29	19.08	31.14	24.25
Wheat	100.49	35.62	2.44	88.73	-	-	14.50	64.47	75.66	58.92
Maize	18.99	6.73	-	-	**	**	**	**	1.51	1.18
Sorghum	7.38	2.62	-	-	**	**	**	**	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	19.93	7.06	-	-	-	-	**	**	8.96	6.98
PULSES	19.57	6.94	**	**	-	-	**	**	.63	.49
Horse Beans	5.29	1.88	-	-	-	-	**	**	**	**
Field Peas	4.39	1.56	-	-	-	-	-	-	**	**
Haricot Beans	.44	.16	-	-	-	-	-	-	-	-
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	2.15	.76	**	**	-	-	**	**	**	**
Vetch	**	**	-	-	-	-	**	**	**	**
OILSEEDS	5.94	2.11	**	**	-	-	**	**	**	**
Neug	**	**	-	-	-	-	-	-	-	-
Lin Seed	5.85	2.07	**	**	-	-	**	**	**	**
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	10.87	3.85	**	**	**	**	-	-	.64	.50
Fenugreek	2.32	.82	-	-	-	-	-	-	**	**
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	.75	.27	-	-	-	-	-	-	**	**
Other Temporary	1.90	.67	**	**	**	**	-	-	.21	.16
ALL TEMPORARY	273.20	96.84	2.75	100.00	**	**	22.38	99.51	124.11	96.65
Chat	.13	.05	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	5.51	1.95	-	-	-	-	**	**	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.11	.04	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	-	-
Other Permanent	.16	.06	-	-	-	-	-	-	-	-
TOTAL PERMANENT	8.91	3.16	-	-	-	-	**	**	**	**
ALL CROPS	282.11	100.00	2.75	100.00	**	**	22.49	100.00	128.41	100.00



TABLE 1.6.12

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Borena Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	53.74	44.01	**	**	-	-	**	**	**	**
Teff	**	**	-	-	-	-	**	**	**	**
Barely	14.62	11.97	-	-	-	-	**	**	**	**
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	25.72	21.06	**	**	-	-	**	**	2.69	14.27
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	3.44	2.82	-	-	-	-	-	-	**	**
Horse Beans	.94	.77	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	1.82	1.49	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	3.83	3.14	-	-	-	-	**	**	1.47	7.80
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	**	**	-	-	-	-	-	-	-	-
Other Temporary	3.60	2.95	-	-	-	-	**	**	1.45	7.69
ALL TEMPORARY	61.18	50.10	**	**	-	-	**	**	**	**
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	21.90	17.93	3.23	72.42	-	-	**	**	**	**
Enset	34.86	28.55	-	-	-	-	**	**	6.64	35.23
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	60.94	49.90	3.23	72.42	-	-	1.04	49.52	8.83	46.84
ALL CROPS	122.12	100.00	4.46	100.00	-	-	2.10	100.00	18.85	100.00

TABLE 1.7

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Somale

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	46.17	82.56	.54	12.71	.76	15.54	.12	66.67	**	**
Teff	**	**	-	-	-	-	-	-	-	-
Barely	3.63	6.49	-	-	.09	1.84	**	**	**	**
Wheat	1.82	3.25	-	-	.02	.41	**	**	**	**
Maize	24.23	43.33	.39	9.18	.52	10.63	**	**	**	**
Sorghum	16.25	29.06	.15	3.53	.13	2.66	.02	11.11	.50	17.42
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	-	-	-	-
PULSES	.99	1.77	**	**	.16	3.27	-	-	**	**
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.73	1.31	**	**	.16	3.27	-	-	**	**
Chick Peas	.23	.41	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	**	**	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	**	**	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	**	**	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	**	**	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	**	**	3.73	76.28	**	**	**	**
Fenugreek	**	**	-	-	-	-	**	**	**	**
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	-	-	-	-
Other Temporary	**	**	**	**	3.73	76.28	**	**	**	**
ALL TEMPORARY	52.11	93.19	**	**	4.65	95.09	**	**	**	**
Chat	3.64	6.51	-	-	.07	1.43	-	-	**	**
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.17	.30	**	**	.17	3.48	-	-	**	**
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	3.81	6.81	**	**	.24	4.91	-	-	**	**
ALL CROPS	55.92	100.00	4.25	100.00	4.89	100.00	.18	100.00	**	**

TABLE 1.7.1

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Shinele Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	.43	64.18	.03	50.00	.21	46.67	.01	100.00	.11	84.62
Teff	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	.12	17.91	-	-	.10	22.22	-	-	.02	15.38
Sorghum	.31	46.27	.03	50.00	.11	24.44	**	**	.09	69.23
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.04	5.97	**	**	.04	8.89	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	.04	5.97	**	**	.04	8.89	-	-	**	**
ALL TEMPORARY	.47	70.15	.04	66.67	.25	55.56	.01	100.00	.12	92.31
Chat	.04	5.97	-	-	.04	8.89	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.16	23.88	**	**	.16	35.56	-	-	**	**
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.20	29.85	**	**	.20	44.44	-	-	**	**
ALL CROPS	.67	100.00	.06	100.00	.45	100.00	.01	100.00	.13	100.00

TABLE 1.7.2

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Jijiga Zone

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TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	41.10	88.48	.49	98.00	.15	78.95	**	**	**	**
Teff	**	**	-	-	-	-	-	-	-	-
Barely	3.63	7.81	-	-	**	**	**	**	**	**
Wheat	1.82	3.92	-	-	**	**	**	**	**	**
Maize	19.51	42.00	.39	78.00	**	**	-	-	**	**
Sorghum	15.90	34.23	.10	20.00	**	**	**	**	.41	14.96
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	-	-	-	-
PULSES	.52	1.12	**	**	-	-	-	-	.03	1.09
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.26	.56	**	**	-	-	-	-	.03	1.09
Chick Peas	.23	.50	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	**	**	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	**	**	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	.06	.13	-	-	-	-	**	**	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	**	**	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.95	2.05	-	-	**	**	**	**	**	**
Fenugreek	**	**	-	-	-	-	**	**	**	**
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	-	-	-	-
Other Temporary	.81	1.74	-	-	**	**	-	-	**	**
ALL TEMPORARY	42.85	92.25	.50	100.00	.16	84.21	**	**	**	**
Chat	3.60	7.75	-	-	**	**	-	-	**	**
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	3.60	7.75	-	-	**	**	-	-	**	**
ALL CROPS	46.45	100.00	.50	100.00	.19	100.00	**	**	**	**

TABLE 1.7.3

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Moyale Zone

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TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	4.64	52.73	**	**	.40	9.41	.03	75.00	**	**
Teff	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	4.60	52.27	-	-	.40	9.41	.03	75.00	**	**
Sorghum	**	**	**	**	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.47	5.34	-	-	**	**	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.47	5.34	-	-	**	**	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	**	**	**	**	**	**	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	**	**	**	**	**	**	**	**	**	**
ALL TEMPORARY	8.79	99.89	**	**	**	**	.04	100.00	.02	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	**	**	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	**	**	-	-	**	**	-	-	-	-
ALL CROPS	8.80	100.00	**	**	**	**	.04	100.00	.02	100.00

TABLE 1.8 ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS 1999/2000(1992 E.C.)

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TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	141.28	78.26	1.87	89.47	**	**	1.83	94.82	16.88	85.69
Teff	23.81	13.19	**	.96	-	-	**	**	5.27	26.75
Barely	**	**	-	-	-	-	-	-	**	**
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	29.54	16.36	1.85	88.52	**	**	.62	32.12	7.94	40.30
Sorghum	60.35	33.43	-	-	**	**	.68	35.23	.57	2.89
Millet	24.57	13.61	-	-	-	-	**	**	**	**
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	6.90	3.82	-	-	-	-	**	**	**	**
Horse Beans	1.22	.68	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	4.63	2.56	-	-	-	-	**	**	.04	.20
Chick Peas	.40	.22	-	-	-	-	**	**	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	24.46	13.55	-	-	**	**	**	**	.88	4.47
Neug	15.58	8.63	-	-	-	-	-	-	**	**
Lin Seed	.29	.16	-	-	-	-	-	-	**	**
Rape seed	.04	.02	-	-	**	**	-	-	**	**
Ground Nuts	1.90	1.05	-	-	-	-	-	-	**	**
Sun Flower	**	**	-	-	-	-	-	-	-	-
Sesame	6.64	3.68	-	-	-	-	**	**	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	4.73	2.62	**	2.39	-	-	.04	2.07	1.01	5.13
Fenugreek	.04	.02	-	-	-	-	-	-	-	-
Spices	1.66	.92	-	-	-	-	**	**	.49	2.49
Potatoes	**	**	-	-	-	-	**	**	**	**
Other Temporary	2.66	1.47	**	2.39	-	-	**	**	.23	1.17
ALL TEMPORARY	177.37	98.26	1.92	91.87	**	**	1.92	99.48	19.44	98.68
Chat	.10	.06	-	-	-	-	-	-	.01	.05
Coffee	**	**	.17	8.13	**	**	**	**	**	**
Enset	**	**	-	-	-	-	-	-	-	-
Cotton	.17	.09	-	-	-	-	-	-	-	-
Tobacco	.06	.03	-	-	-	-	-	-	**	**
Fruits	.68	.38	-	-	**	**	-	-	.04	.20
Other Permanent	.23	.13	-	-	**	**	-	-	.02	.10
TOTAL PERMANENT	3.15	1.74	.17	8.13	**	**	**	**	.26	1.32
ALL CROPS	180.52	100.00	2.09	100.00	**	**	1.93	100.00	19.70	100.00

TABLE 1.8.1

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Metekel Zone

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TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	65.87	77.53	1.08	93.10	**	**	**	**	11.41	**
Teff	11.73	13.81	**	**	-	-	-	-	**	**
Barely	**	**	-	-	-	-	-	-	**	**
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	7.71	9.07	1.06	91.38	**	**	**	**	3.63	27.60
Sorghum	25.61	30.14	-	-	**	**	**	**	**	**
Millet	18.00	21.19	-	-	-	-	**	**	**	**
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	5.24	6.17	-	-	-	-	**	**	**	**
Horse Beans	.72	.85	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	3.68	4.33	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	-	-	**	**	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	9.99	11.76	-	-	**	**	-	-	**	**
Neug	5.38	6.33	-	-	-	-	-	-	**	**
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	**	**	-	-	**	**	-	-	**	**
Ground Nuts	**	**	-	-	-	-	-	-	**	**
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	2.22	2.61	**	**	-	-	**	**	.56	4.26
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	.15	1.14
Potatoes	**	**	-	-	-	-	**	**	**	**
Other Temporary	1.15	1.35	**	**	-	-	-	-	.13	.99
ALL TEMPORARY	83.32	98.07	1.13	97.41	**	**	**	**	12.98	98.71
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	**	**	**	**	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	.07	.08	-	-	.04	2.86	-	-	.02	.15
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	**	**	**	**	**	**	-	-	**	**
ALL CROPS	84.96	100.00	1.16	100.00	**	**	**	**	13.15	100.00

TABLE 1.8.2

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Asosa Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	44.01	75.10	.66	82.50	-	-	.78	95.12	2.61	81.56
Teff	6.76	11.54	-	-	-	-	**	**	.95	29.69
Barely	**	**	-	-	-	-	-	-	-	-
Wheat	**	**	-	-	-	-	-	-	-	-
Maize	10.92	18.63	.66	82.50	-	-	.50	60.98	1.47	45.94
Sorghum	24.86	42.42	-	-	-	-	.22	26.83	**	**
Millet	1.28	2.18	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.47	.80	-	-	-	-	-	-	-	-
Horse Beans	**	**	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	**	**	-	-	-	-	-	-	-	-
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	10.55	18.00	-	-	-	-	-	-	**	**
Neug	7.95	13.57	-	-	-	-	-	-	**	**
Lin Seed	.19	.32	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	.77	1.31	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	1.64	2.80	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	2.24	3.82	-	-	-	-	.03	3.66	.31	9.69
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	.86	1.47	-	-	-	-	**	**	.27	8.44
Potatoes	**	**	-	-	-	-	-	-	**	.31
Other Temporary	1.36	2.32	-	-	-	-	**	**	.03	.94
ALL TEMPORARY	57.27	97.73	.66	82.50	-	-	.81	98.78	3.12	97.50
Chat	.10	.17	-	-	-	-	-	-	-	-
Coffee	.47	.80	.14	17.50	**	**	**	**	.04	1.25
Enset	**	**	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.04	.07	-	-	-	-	-	-	**	**
Fruits	.52	.89	-	-	.01	33.33	-	-	.02	.63
Other Permanent	.19	.32	-	-	**	**	-	-	.01	.31
TOTAL PERMANENT	1.33	2.27	.14	17.50	.03	100.00	**	**	.08	2.50
ALL CROPS	58.60	100.00	.80	100.00	.03	100.00	.82	100.00	3.20	100.00



TABLE 1.8.3

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Kamashi Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	**	**	**	**	-	-	.42	91.30	**	**
Teff	**	**	-	-	-	-	**	**	-	-
Barely	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	**	**	**	**	-	-	**	**	**	**
Sorghum	9.88	26.73	-	-	-	-	.14	30.43	-	-
Millet	**	**	-	-	-	-	**	**	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	**	**	-	-	-	-	**	**	**	**
Horse Beans	**	**	-	-	-	-	-	-	-	-
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.64	1.73	-	-	-	-	**	**	**	**
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	3.90	10.55	-	-	-	-	**	**	**	**
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	.03	.08	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	1.63	4.41	-	-	-	-	**	**	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	**	**	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	.01	.03	-	-	-	-	-	-	-	-
Other Temporary	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	**	**	**	**	-	-	.46	100.00	**	**
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	.07	.19	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	.01	100.00	-	-	-	-
Other Permanent	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.19	.51	-	-	.01	100.00	-	-	-	-
ALL CROPS	**	**	**	**	.01	100.00	.46	100.00	**	**

TABLE 1.9

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

(S.N.N.P.R)

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TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	593.08	54.49	75.28	93.11	2.95	35.33	50.72	86.14	284.87	52.73
Teff	164.91	15.15	5.00	6.18	.74	8.86	22.41	38.06	80.58	14.91
Barely	56.73	5.21	**	**	**	**	1.42	2.41	23.33	4.32
Wheat	68.39	6.28	9.48	11.73	**	**	16.76	28.46	55.20	10.22
Maize	205.59	18.89	60.65	75.02	1.33	15.93	7.28	12.36	112.06	20.74
Sorghum	93.24	8.57	**	**	**	**	1.94	3.29	11.34	2.10
Millet	4.16	.38	-	-	-	-	.91	1.55	2.33	.43
Oats	.06	.01	-	-	-	-	-	-	**	**
PULSES	99.63	9.15	.14	.17	.26	3.11	2.60	4.42	33.30	6.16
Horse Beans	30.11	2.77	**	**	**	**	.81	1.38	11.19	2.07
Field Peas	22.20	2.04	-	-	-	-	**	**	5.50	1.02
Haricot Beans	38.02	3.49	**	**	.24	2.87	**	**	15.58	2.88
Chick Peas	**	**	**	**	**	**	**	**	.61	.11
Lentils	.91	.08	-	-	-	-	**	**	**	**
Vetch	**	**	-	-	-	-	-	-	-	-
OILSEEDS	2.31	.21	-	-	-	-	**	**	**	**
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	.52	.05	-	-	-	-	**	**	.11	.02
Rape seed	.22	.02	-	-	-	-	-	-	.13	.02
Ground Nuts	**	**	-	-	-	-	-	-	-	-
Sun Flower	.35	.03	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	88.44	8.13	.23	.28	.23	2.75	1.28	2.17	45.17	8.36
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	17.90	1.64	**	**	**	**	**	**	8.53	1.58
Potatoes	12.10	1.11	-	-	**	**	**	**	8.80	1.63
Other Temporary	58.17	5.34	.19	.24	.19	2.28	.53	.90	27.69	5.13
ALL TEMPORARY	783.46	71.98	75.65	93.57	3.44	41.20	54.61	92.75	363.83	67.34
Chat	18.60	1.71	-	-	**	**	1.60	2.72	9.05	1.68
Coffee	82.96	7.62	5.14	6.36	.90	10.78	.82	1.39	29.09	5.38
Enset	179.32	16.47	-	-	.71	8.50	1.75	2.97	130.92	24.23
Cotton	**	**	-	-	**	**	**	**	.46	.09
Tobacco	1.34	.12	**	**	-	-	-	-	.65	.12
Fruits	8.99	.83	-	-	**	**	**	**	2.58	.48
Other Permanent	8.01	.74	-	-	.16	1.92	**	**	3.71	.69
TOTAL PERMANENT	305.00	28.02	5.20	6.43	**	**	4.27	7.25	176.46	32.66
ALL CROPS	1,088.46	100.00	80.85	100.00	8.35	100.00	58.88	100.00	540.29	100.00

TABLE 1.9.1

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000 (1992 E.C.)

Garage Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	122.05	65.40	22.07	99.46	.22	81.48	15.96	88.52	82.33	64.91
Teff	36.38	19.49	**	**	**	**	7.62	42.26	25.61	20.19
Barely	15.47	8.29	**	**	**	**	.22	1.22	13.86	10.93
Wheat	16.19	8.67	3.59	16.18	-	-	3.82	21.19	13.74	10.83
Maize	43.76	23.45	17.67	79.63	**	**	**	**	28.37	22.37
Sorghum	10.23	5.48	-	-	-	-	**	**	**	**
Millet	**	**	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	18.32	9.82	**	**	**	**	**	**	7.12	5.61
Horse Beans	6.06	3.25	**	**	**	**	**	**	4.04	3.19
Field Peas	3.66	1.96	-	-	-	-	**	**	**	**
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	-	-	**	**	**	**
Lentils	**	**	-	-	-	-	**	**	**	**
Vetch	**	**	-	-	-	-	-	-	-	-
OILSEEDS	1.31	.70	-	-	-	-	-	-	**	**
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	8.39	4.50	**	**	**	**	**	**	4.46	3.52
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	5.17	2.77	-	-	-	-	**	**	1.90	1.50
Potatoes	1.08	.58	-	-	-	-	-	-	1.02	.80
Other Temporary	2.14	1.15	**	**	**	**	.03	.17	1.54	1.21
ALL TEMPORARY	150.07	80.41	22.12	99.68	.25	92.59	17.55	97.34	94.23	74.30
Chat	5.29	2.83	-	-	**	**	**	**	3.68	2.90
Coffee	2.93	1.57	**	**	-	-	**	**	2.56	2.02
Enset	26.44	14.17	-	-	-	-	**	**	25.21	19.88
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	-	-
Fruits	.33	.18	-	-	-	-	-	-	**	**
Other Permanent	1.56	.84	-	-	**	**	-	-	**	**
TOTAL PERMANENT	36.56	19.59	**	**	**	**	.48	2.66	32.60	25.70
ALL CROPS	186.63	100.00	22.19	100.00	.27	100.00	18.03	100.00	126.83	100.00

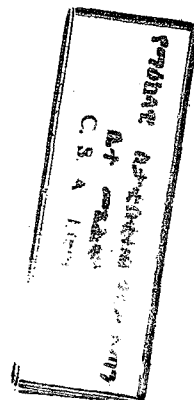


TABLE 1.9.2

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Hadiya Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	76.86	67.81	10.00	98.91	.06	37.50	18.81	97.66	66.59	68.41
Teff	20.62	18.19	3.15	31.16	**	**	8.42	43.72	19.92	20.46
Barely	3.11	2.74	-	-	-	-	.39	2.02	2.89	2.97
Wheat	28.02	24.72	3.57	35.31	**	**	9.45	49.07	27.52	28.27
Maize	18.50	16.32	3.28	32.44	**	**	.15	.78	14.43	14.82
Sorghum	5.93	5.23	-	-	-	-	**	**	1.41	1.45
Millet	**	**	-	-	-	-	**	**	**	**
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	7.86	6.93	**	**	**	**	**	**	6.46	6.64
Horse Beans	4.20	3.71	**	**	-	-	**	**	4.02	4.13
Field Peas	2.28	2.01	-	-	-	-	-	-	1.66	1.71
Haricot Beans	1.09	.96	**	**	**	**	-	-	.53	.54
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	**	**	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	**	**	**	**
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	7.05	6.22	**	**	**	**	**	**	5.03	5.17
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	1.32	1.16	-	-	**	**	**	**	1.19	1.22
Other Temporary	5.23	4.61	**	**	**	**	**	**	3.44	3.53
ALL TEMPORARY	91.92	81.09	10.10	99.90	.09	56.25	18.99	98.60	78.15	80.29
Chat	1.46	1.29	-	-	-	-	**	**	1.09	1.12
Coffee	3.11	2.74	**	**	**	**	**	**	2.31	2.37
Enset	15.71	13.86	-	-	**	**	.21	1.09	15.03	15.44
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.40	.35	-	-	-	-	-	-	.24	.25
Fruits	.19	.17	-	-	-	-	-	-	.18	.18
Other Permanent	.56	.49	-	-	**	**	-	-	.34	.35
TOTAL PERMANENT	21.43	18.91	**	**	**	**	.27	1.40	19.19	19.71
ALL CROPS	113.35	100.00	10.11	100.00	.16	100.00	19.26	100.00	97.34	100.00

TABLE 1.9.3

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Kembata Alaba Tembaro Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	62.66	66.78	6.65	98.81	-	-	7.45	91.98	44.14	62.89
Teff	14.74	15.71	.79	11.74	-	-	2.95	36.42	13.63	19.42
Barely	.95	1.01	-	-	-	-	**	**	.91	1.30
Wheat	11.14	11.87	**	7.58	-	-	2.87	35.43	9.75	13.89
Maize	29.41	31.34	5.35	79.49	-	-	.90	11.11	17.02	24.25
Sorghum	3.88	4.14	-	-	-	-	**	**	.91	1.30
Millet	2.53	2.70	-	-	-	-	**	**	**	**
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	4.88	5.20	-	-	-	-	**	**	3.71	5.29
Horse Beans	2.76	2.94	-	-	-	-	**	**	2.41	3.43
Field Peas	.41	.44	-	-	-	-	**	**	.34	.48
Haricot Beans	1.56	1.66	-	-	-	-	**	**	.84	1.20
Chick Peas	.11	.12	-	-	-	-	-	-	.09	.13
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.11	.12	-	-	-	-	-	-	.07	.10
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	.05	.05	-	-	-	-	-	-	.02	.03
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	13.54	14.43	.07	1.04	**	**	**	**	11.16	15.90
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	6.46	6.88	.04	.59	**	**	**	**	5.70	8.12
Potatoes	1.47	1.57	-	-	-	-	**	**	1.29	1.84
Other Temporary	5.36	5.71	.03	.45	**	**	**	**	4.03	5.74
ALL TEMPORARY	81.19	86.53	6.72	99.85	**	**	7.96	98.27	59.08	84.17
Chat	1.26	1.34	-	-	-	-	.12	1.48	.81	1.15
Coffee	3.09	3.29	.01	.15	**	**	**	**	2.76	3.93
Enset	7.11	7.58	-	-	**	**	.01	.12	6.73	9.59
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.35	.37	-	-	-	-	-	-	**	**
Fruits	.26	.28	-	-	-	-	-	-	.21	.30
Other Permanent	.57	.61	-	-	**	**	-	-	.35	.50
TOTAL PERMANENT	12.64	13.47	.01	.15	.04	66.67	.14	1.73	11.11	15.83
ALL CROPS	93.83	100.00	6.73	100.00	.06	100.00	8.10	100.00	70.19	100.00

TABLE 1.9.4

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Sidama Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	26.40	19.17	8.93	82.92	-	-	**	**	14.66	17.95
Teff	1.22	.89	**	**	-	-	-	-	.65	.80
Barely	2.16	1.57	-	-	-	-	-	-	**	**
Wheat	**	**	**	**	-	-	-	-	**	**
Maize	22.28	16.18	8.74	81.15	-	-	**	**	13.69	16.76
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	8.50	6.17	**	**	**	**	**	**	4.69	5.74
Horse Beans	.74	.54	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	6.80	4.94	**	**	**	**	**	**	4.66	5.71
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	4.82	3.50	-	-	-	-	**	**	3.50	4.29
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Temporary	4.76	3.46	-	-	-	-	**	**	3.46	4.24
ALL TEMPORARY	39.73	28.85	8.94	83.01	**	**	**	**	22.86	27.99
Chat	9.53	6.92	-	-	.59	76.62	1.32	47.31	3.31	4.05
Coffee	25.32	18.39	**	**	.06	7.79	.17	6.09	11.59	14.19
Enset	56.82	41.26	-	-	-	-	**	**	41.05	50.27
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	2.93	2.13	-	-	**	**	**	**	1.35	1.65
Other Permanent	3.22	2.34	-	-	**	**	-	-	1.47	1.80
TOTAL PERMANENT	97.98	71.15	**	**	.74	96.10	1.98	70.97	58.80	72.01
ALL CROPS	137.71	100.00	10.77	100.00	.77	100.00	2.79	100.00	81.66	100.00

TABLE 1.9.5

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Gedio Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	7.91	20.33	.97	25.73	-	-	**	**	1.96	28.45
Teff	**	**	-	-	-	-	-	-	**	**
Barely	2.38	6.12	-	-	-	-	**	**	**	**
Wheat	**	**	**	**	-	-	-	-	**	**
Maize	4.95	12.72	**	**	-	-	**	**	**	**
Sorghum	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	1.91	4.91	-	-	**	**	-	-	**	**
Horse Beans	1.25	3.21	-	-	-	-	-	-	**	**
Field Peas	.43	1.11	-	-	-	-	-	-	**	**
Haricot Beans	**	**	-	-	**	**	-	-	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.02	.05	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	.02	.05	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	1.81	4.65	**	**	-	-	**	**	.96	13.93
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	**	**	-	-	-	-	-	-	-	-
Other Temporary	1.79	4.60	**	**	-	-	**	**	.95	13.79
ALL TEMPORARY	11.65	29.94	.99	26.26	**	**	**	**	3.17	46.01
Chat	**	**	-	-	-	-	-	-	-	-
Coffee	14.78	37.99	**	**	**	**	.17	15.74	1.39	20.17
Enset	11.46	29.45	-	-	**	**	**	**	2.20	31.93
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.36	.93	-	-	-	-	-	-	**	**
Other Permanent	.41	1.05	-	-	-	-	**	**	**	**
TOTAL PERMANENT	27.26	70.06	**	**	.03	75.00	.26	24.07	3.72	53.99
ALL CROPS	38.91	100.00	3.77	100.00	.04	100.00	1.08	100.00	6.89	100.00

TABLE 1.9.6

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

North Omo Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	157.28	55.58	22.96	98.88	**	**	3.39	64.08	57.01	45.78
Teff	58.91	20.82	**	**	**	**	**	**	14.35	11.52
Barely	19.05	6.73	-	-	-	-	**	**	**	**
Wheat	4.31	1.52	**	**	-	-	-	-	**	**
Maize	51.96	18.36	22.45	96.68	**	**	**	**	33.29	26.73
Sorghum	22.61	7.99	-	-	-	-	**	**	**	**
Millet	**	**	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	29.75	10.51	**	**	-	-	**	**	10.21	8.20
Horse Beans	5.10	1.80	-	-	-	-	**	**	**	**
Field Peas	5.77	2.04	-	-	-	-	**	**	**	**
Haricot Beans	17.84	6.30	-	-	-	-	**	**	9.10	7.31
Chick Peas	1.04	.37	**	**	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	**	**	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	40.61	14.35	**	**	**	**	.60	11.34	18.25	14.66
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	6.51	2.30	-	-	**	**	**	**	4.57	3.67
Other Temporary	29.90	10.57	**	**	**	**	**	**	13.17	10.58
ALL TEMPORARY	227.81	80.50	23.07	99.35	**	**	4.72	89.22	85.47	68.63
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	10.08	3.56	**	**	**	**	**	**	7.06	5.67
Enset	36.16	12.78	-	-	**	**	**	**	30.83	24.76
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	**	**	**	**	-	-	-	-	**	**
Fruits	**	**	-	-	**	**	-	-	.32	.26
Other Permanent	.79	.28	-	-	**	**	**	**	.49	.39
TOTAL PERMANENT	55.19	19.50	.15	.65	**	**	**	**	39.06	31.37
ALL CROPS	283.00	100.00	23.22	100.00	**	**	5.29	100.00	124.53	100.00



TABLE 1.9.7

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

South Omo Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	28.60	68.03	.65	94.20	**	**	**	**	.96	37.07
Teff	2.62	6.23	-	-	-	-	**	**	**	**
Barely	2.92	6.95	-	-	-	-	**	**	**	**
Wheat	**	**	**	**	-	-	-	-	**	**
Maize	8.81	20.96	.50	72.46	.02	14.29	**	**	.59	22.78
Sorghum	13.44	31.97	-	-	**	**	**	**	**	**
Millet	.22	.52	-	-	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	4.01	9.54	-	-	**	**	**	**	.09	3.47
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	.77	1.83	-	-	-	-	**	**	-	-
Haricot Beans	2.33	5.54	-	-	**	**	-	-	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	**	**	-	-	-	-	-	-	-	-
OILSEEDS	.39	.93	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	.32	.76	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	1.79	4.26	-	-	-	-	-	-	.03	1.16
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	.35	.83	-	-	-	-	-	-	-	-
Potatoes	.14	.33	-	-	-	-	-	-	-	-
Other Temporary	1.30	3.09	-	-	-	-	-	-	**	**
ALL TEMPORARY	34.79	82.75	.65	94.20	**	**	.36	92.31	1.08	41.70
Chat	**	**	-	-	-	-	-	-	-	-
Coffee	3.08	7.33	**	**	**	**	-	-	**	**
Enset	3.71	8.82	-	-	-	-	**	**	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	-	-
Fruits	.36	.86	-	-	**	**	-	-	**	**
Other Permanent	.08	.19	-	-	-	-	-	-	**	**
TOTAL PERMANENT	7.25	17.25	**	**	**	**	**	**	**	**
ALL CROPS	42.04	100.00	.69	100.00	**	**	.39	100.00	2.59	100.00

TABLE 1.9.8

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Keficho-Shekicho Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	49.92	49.52	1.52	87.36	.21	100.00	2.21	80.95	5.16	55.78
Teff	17.31	17.17	**	**	.21	100.00	1.36	49.82	2.15	23.24
Barely	5.91	5.86	**	**	-	-	**	**	**	**
Wheat	3.73	3.70	.92	52.87	-	-	**	**	1.15	12.43
Maize	11.37	11.28	**	**	-	-	**	**	1.50	16.22
Sorghum	11.32	11.23	-	-	-	-	**	**	**	**
Millet	**	**	-	-	-	-	**	**	-	-
Oats	**	**	-	-	-	-	-	-	-	-
PULSES	16.68	16.55	-	-	-	-	.08	2.93	**	**
Horse Beans	7.23	7.17	-	-	-	-	.06	2.20	-	-
Field Peas	6.78	6.73	-	-	-	-	-	-	**	**
Haricot Beans	2.67	2.65	-	-	-	-	**	**	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.02	.02	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	.02	.02	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	4.60	4.56	**	**	-	-	**	**	.12	1.30
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	-	-	-	-
Other Temporary	**	**	**	**	-	-	**	**	.12	1.30
ALL TEMPORARY	71.22	70.65	1.53	87.93	.21	100.00	2.31	84.62	5.38	58.16
Chat	.22	.22	-	-	-	-	-	-	-	-
Coffee	13.86	13.75	**	**	-	-	**	**	**	**
Enset	14.41	14.29	-	-	-	-	**	**	3.74	40.43
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	-	-
Fruits	.58	.58	-	-	-	-	-	-	**	**
Other Permanent	.36	.36	-	-	-	-	-	-	.01	.11
TOTAL PERMANENT	29.59	29.35	**	**	-	-	.42	15.38	3.87	41.84
ALL CROPS	100.81	100.00	1.74	100.00	.21	100.00	2.73	100.00	9.25	100.00

TABLE 1.9.9

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Bench-Maji Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	14.19	50.30	.92	91.09	**	**	.10	83.33	1.17	33.43
Teff	2.29	8.12	-	-	-	-	**	**	**	**
Barely	1.49	5.28	-	-	-	-	-	-	-	-
Wheat	.12	.43	**	**	-	-	-	-	**	**
Maize	5.24	18.57	.87	86.14	**	**	**	**	.95	27.14
Sorghum	5.02	17.80	**	**	-	-	**	**	.01	.29
Millet	**	**	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	-	-	-	-
PULSES	1.58	5.60	-	-	-	-	-	-	**	**
Horse Beans	.70	2.48	-	-	-	-	-	-	-	-
Field Peas	.24	.85	-	-	-	-	-	-	-	-
Haricot Beans	.64	2.27	-	-	-	-	-	-	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	3.49	12.37	-	-	**	**	-	-	.53	15.14
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	-	-	-	-
Other Temporary	3.37	11.95	-	-	**	**	-	-	.53	15.14
ALL TEMPORARY	19.26	68.27	**	**	.02	100.00	.10	83.33	1.71	48.86
Chat	.28	.99	-	-	-	-	-	-	**	**
Coffee	5.00	17.72	**	**	-	-	**	**	.39	11.14
Enset	2.62	9.29	-	-	-	-	-	-	1.25	35.71
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.01	.04	-	-	-	-	-	-	-	-
Fruits	.76	2.69	-	-	-	-	-	-	**	**
Other Permanent	.28	.99	-	-	-	-	-	-	**	**
TOTAL PERMANENT	8.95	31.73	**	**	-	-	**	**	1.79	51.14
ALL CROPS	28.21	100.00	1.01	100.00	.02	100.00	.12	100.00	3.50	100.00

TABLE 1.9.10

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Yem Special Wereda Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	9.88	71.13	.47	100.00	-	-	.60	93.75	4.71	72.69
Teff	4.62	33.26	.03	6.38	-	-	.51	79.69	3.61	55.71
Barely	1.30	9.36	-	-	-	-	-	-	.13	2.01
Wheat	2.13	15.33	**	**	-	-	**	**	.39	6.02
Maize	1.39	10.01	.33	70.21	-	-	.04	6.25	.56	8.64
Sorghum	.43	3.10	-	-	-	-	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	.01	.07	-	-	-	-	-	-	-	-
PULSES	1.67	12.02	-	-	-	-	**	**	.44	6.79
Horse Beans	1.04	7.49	-	-	-	-	-	-	.24	3.70
Field Peas	.54	3.89	-	-	-	-	**	**	.18	2.78
Haricot Beans	**	**	-	-	-	-	-	-	-	-
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	.07	.50	-	-	-	-	-	-	.02	.31
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.04	.29	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.29	2.09	-	-	-	-	-	-	.09	1.39
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	.04	.29	-	-	-	-	-	-	.01	.15
Other Temporary	.25	1.80	-	-	-	-	-	-	.08	1.23
ALL TEMPORARY	11.88	85.53	.47	100.00	-	-	.61	95.31	5.25	81.02
Chat	.06	.43	-	-	-	-	-	-	.02	.31
Coffee	.11	.79	-	-	-	-	-	-	.03	.46
Enset	1.79	12.89	-	-	-	-	.03	4.69	1.18	18.21
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.01	.07	-	-	-	-	-	-	-	-
Other Permanent	.04	.29	-	-	-	-	-	-	-	-
TOTAL PERMANENT	2.01	14.47	-	-	-	-	.03	4.69	1.23	18.98
ALL CROPS	13.89	100.00	.47	100.00	-	-	.64	100.00	6.48	100.00

TABLE 1.9.11

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Amaro Special Wereda Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	4.01	45.16	**	**	.49	26.92	**	**	.27	8.77
Teff	1.89	21.28	-	-	**	**	**	**	.14	4.55
Barely	.82	9.23	-	-	**	**	**	**	.01	.32
Wheat	.34	3.83	**	**	-	-	-	-	.04	1.30
Maize	**	**	**	**	**	**	**	**	**	**
Sorghum	**	**	-	-	**	**	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.94	10.59	-	-	.03	1.65	-	-	.03	.97
Horse Beans	.14	1.58	-	-	-	-	-	-	-	-
Field Peas	.26	2.93	-	-	-	-	-	-	**	**
Haricot Beans	.28	3.15	-	-	.03	1.65	-	-	.02	.65
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	.02	.23	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.14	1.58	-	-	.02	1.10	**	**	.09	2.92
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	**	**	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	.13	1.46	-	-	.02	1.10	-	-	.09	2.92
ALL TEMPORARY	5.09	57.32	**	**	.54	29.67	**	**	.39	12.66
Chat	.08	.90	-	-	.06	3.30	-	-	**	**
Coffee	1.12	12.61	-	-	.62	34.07	-	-	.57	18.51
Enset	2.46	27.70	-	-	.53	29.12	**	**	2.02	65.58
Cotton	.02	.23	-	-	.01	.55	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.03	.34	-	-	.02	1.10	-	-	.01	.32
Other Permanent	.08	.90	-	-	.04	2.20	-	-	.05	1.62
TOTAL PERMANENT	3.79	42.68	-	-	1.28	70.33	**	**	2.69	87.34
ALL CROPS	8.88	100.00	**	**	1.82	100.00	**	**	3.08	100.00

TABLE 1.9.12

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Burji Special Wereda Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	2.25	66.96	-	-	**	**	.06	100.00	.20	39.22
Teff	.76	22.62	-	-	-	-	**	**	.03	5.88
Barely	.27	8.04	-	-	-	-	-	-	.02	3.92
Wheat	.41	12.20	-	-	-	-	-	-	.01	1.96
Maize	.32	9.52	-	-	**	**	.03	50.00	.09	17.65
Sorghum	.49	14.58	-	-	-	-	**	**	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.67	19.94	-	-	**	**	-	-	.03	5.88
Horse Beans	**	**	-	-	-	-	-	-	-	-
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.53	15.77	-	-	**	**	-	-	.03	5.88
Chick Peas	.10	2.98	-	-	-	-	-	-	-	-
Lentils	.01	.30	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.06	1.79	-	-	-	-	-	-	.02	3.92
Fenugreek	**	**	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	.05	1.49	-	-	-	-	-	-	.02	3.92
ALL TEMPORARY	2.98	88.69	-	-	**	**	.06	100.00	.25	49.02
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	.06	1.79	-	-	**	**	-	-	.03	5.88
Enset	.29	8.63	-	-	-	-	-	-	.23	45.10
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.01	.30	-	-	-	-	-	-	-	-
Other Permanent	.02	.60	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.38	11.31	-	-	.01	33.33	-	-	.26	50.98
ALL CROPS	3.36	100.00	-	-	.03	100.00	.06	100.00	.51	100.00

TABLE 1.9.13

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Konso Special Wereda Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	19.27	80.06	**	**	.29	90.63	.02	100.00	5.57	78.12
Teff	2.48	10.30	-	-	-	-	**	**	**	**
Barely	.13	.54	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	4.12	17.12	**	**	.23	71.88	-	-	.54	7.57
Sorghum	12.54	52.10	**	**	**	**	**	**	4.79	67.18
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	1.69	7.02	-	-	**	**	-	-	.14	1.96
Horse Beans	**	**	-	-	-	-	-	-	-	-
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	1.64	6.81	-	-	**	**	-	-	.14	1.96
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	**	**	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.02	.08	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	.02	.08	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Temporary	.37	1.54	-	-	-	-	-	-	.21	2.95
ALL TEMPORARY	22.74	94.47	**	**	.32	100.00	.02	100.00	6.61	92.71
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	.32	1.33	-	-	-	-	-	-	.22	3.09
Enset	**	**	-	-	-	-	-	-	**	**
Cotton	.81	3.37	-	-	-	-	-	-	.24	3.37
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	.03	.12	-	-	-	-	-	-	.01	.14
TOTAL PERMANENT	1.33	5.53	-	-	-	-	-	-	.52	7.29
ALL CROPS	24.07	100.00	**	**	.32	100.00	.02	100.00	7.13	100.00

TABLE 1.9.14

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Derashe Special Wereda Zone

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	11.80	85.88	**	**	1.10	86.61	**	**	**	**
Teff	.94	6.84	-	-	**	**	-	-	**	**
Barely	.76	5.53	-	-	-	-	-	-	**	**
Wheat	.29	2.11	-	-	-	-	-	-	-	-
Maize	3.03	22.05	-	-	**	**	**	**	.02	9.09
Sorghum	6.78	49.34	**	**	**	**	**	**	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	1.17	8.52	-	-	**	**	**	**	.01	4.55
Horse Beans	**	**	-	-	-	-	-	-	-	-
Field Peas	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.77	5.60	-	-	**	**	**	**	.01	4.55
Chick Peas	.29	2.11	-	-	**	**	-	-	-	-
Lentils	**	**	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.09	.66	-	-	**	**	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	.09	.66	-	-	**	**	-	-	**	**
ALL TEMPORARY	13.07	95.12	**	**	1.23	96.85	**	**	**	**
Chat	**	**	-	-	-	-	-	-	-	-
Coffee	.10	.73	-	-	**	**	-	-	.01	4.55
Enset	.30	2.18	-	-	-	-	-	-	.05	4.55
Cotton	**	**	-	-	**	**	**	**	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.01	.07	-	-	-	-	-	-	-	-
Other Permanent	.02	.15	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.67	4.88	-	-	**	**	**	**	.06	27.27
ALL CROPS	13.74	100.00	**	**	1.27	100.00	**	**	.22	100.00



TABLE 1.10

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Gambela

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	11.76	73.73	**	**	-	-	**	**	**	**
Teff	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	7.09	44.45	**	**	-	-	**	**	**	**
Sorghum	4.65	29.15	**	**	-	-	**	**	-	-
Millet	**	**	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	**	**	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	**	**	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.26	1.63	**	**	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	.03	.19	**	**	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	.23	1.44	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.96	6.02	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	.78	4.89	-	-	-	-	-	-	-	-
ALL TEMPORARY	13.02	81.63	**	**	-	-	**	**	**	**
Chat	.03	.19	-	-	-	-	-	-	-	-
Coffee	2.36	14.80	**	**	-	-	**	**	-	-
Enset	.27	1.69	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	.01	.06	-	-	-	-	-	-	-	-
Fruits	.18	1.13	**	**	-	-	-	-	-	-
Other Permanent	.08	.50	-	-	-	-	-	-	-	-
TOTAL PERMANENT	2.93	18.37	**	**	-	-	**	**	-	-
ALL CROPS	15.95	100.00	**	**	-	-	**	**	**	**

TABLE 1.11

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Harari

( '000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	5.57	60.61	.37	100.00	.22	44.90	.96	84.21	3.89	66.50
Teff	-	-	-	-	-	-	-	-	-	-
Barely	.03	.33	-	-	-	-	-	-	.03	.51
Wheat	.20	2.18	.09	24.32	**	**	-	-	.18	3.08
Maize	1.42	15.45	.17	45.95	.08	16.33	.25	21.93	1.10	18.80
Sorghum	3.91	42.55	**	**	.13	26.53	.71	62.28	2.57	43.93
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	.02	.22	-	-	-	-	-	-	.01	.17
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.02	.22	-	-	-	-	-	-	.01	.17
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.98	10.66	-	-	**	**	**	**	.32	5.47
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	.98	10.66	-	-	**	**	**	**	.32	5.47
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.25	2.72	-	-	.01	2.04	-	-	.13	2.22
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Temporary	.22	2.39	-	-	.01	2.04	-	-	.10	1.71
ALL TEMPORARY	6.82	74.21	.37	100.00	.24	48.98	.97	85.09	4.35	74.36
Chat	2.19	23.83	-	-	.16	32.65	.17	14.91	1.47	25.13
Coffee	.02	.22	-	-	**	**	-	-	.01	.17
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.12	1.31	-	-	.04	8.16	-	-	.02	.34
Other Permanent	**	**	-	-	**	**	-	-	-	-
TOTAL PERMANENT	2.37	25.79	-	-	.25	51.02	.17	14.91	1.50	25.64
ALL CROPS	9.19	100.00	.37	100.00	.49	100.00	1.14	100.00	5.85	100.00

TABLE 1.12

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Addis Ababa

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	6.30	76.83	.40	80.00	-	-	.22	100.00	6.13	89.62
Teff	3.51	42.80	.16	32.00	-	-	.17	77.27	3.47	50.73
Barely	.15	1.83	-	-	-	-	-	-	**	**
Wheat	2.61	31.83	.24	48.00	-	-	.05	22.73	2.59	37.87
Maize	.02	.24	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	.01	.12	-	-	-	-	-	-	-	-
PULSES	1.64	20.00	-	-	-	-	-	-	**	**
Horse Beans	.06	.73	-	-	-	-	-	-	.01	.15
Field Peas	.01	.12	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	.64	7.80	-	-	-	-	-	-	**	**
Lentils	.11	1.34	-	-	-	-	-	-	.04	.58
Vetch	.82	10.00	-	-	-	-	-	-	**	**
OILSEEDS	.01	.12	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	.01	.12	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.24	2.93	.10	20.00	**	**	-	-	.14	2.05
Fenugreek	.08	.98	-	-	-	-	-	-	.03	.44
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	-	-	-	-
Other Temporary	.14	1.71	.10	20.00	**	**	-	-	.11	1.61
ALL TEMPORARY	8.19	99.88	.50	100.00	**	**	.22	100.00	6.84	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	.01	.12	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.01	.12	-	-	-	-	-	-	-	-
ALL CROPS	8.20	100.00	.50	100.00	**	**	.22	100.00	6.84	100.00

TABLE 1.13

ESTIMATE OF IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA AND THEIR  
PERCENTAGE DISTRIBUTION BY CROP FOR MEHER SEASON OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Dire Dawa

('000 HA)

TYPE OF CROP	TOTAL CROP		IMPROVED SEED APPLIED		IRRIGATED		PESTICIDE APPLIED		FERTILIZER APPLIED	
	AREA	%	AREA	%	AREA	%	AREA	%	AREA	%
CEREALS	5.90	82.87	1.58	98.75	.49	52.13	**	**	1.26	81.29
Teff	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-
Wheat	**	**	-	-	-	-	-	-	-	-
Maize	.30	4.21	**	**	.09	9.57	-	-	.09	5.81
Sorghum	5.59	78.51	1.55	96.88	.40	42.55	.14	87.50	1.17	75.48
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.19	2.67	**	**	**	**	-	-	.04	2.58
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.19	2.67	**	**	**	**	-	-	.04	2.58
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.01	.14	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	.01	.14	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.18	2.53	-	-	.09	9.57	-	-	.04	2.58
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Temporary	.18	2.53	-	-	.09	9.57	-	-	.04	2.58
ALL TEMPORARY	6.28	88.20	1.60	100.00	.59	62.77	.14	87.50	1.34	86.45
Chat	.62	8.71	-	-	.15	15.96	-	-	.13	8.39
Coffee	.07	.98	-	-	.07	7.45	-	-	**	**
Enset	**	**	-	-	**	**	**	**	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	.14	1.97	-	-	**	**	**	**	**	**
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.84	11.80	-	-	.35	37.23	**	**	.21	13.55
ALL CROPS	7.12	100.00	1.60	100.00	.94	100.00	.16	100.00	1.55	100.00

## **2. TOTAL FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER AND CROP**

The three types of fertilizers most commonly used by the private peasants during the survey year were Natural, DAP and UREA. These types of fertilizers were used separately or in combination with one another, i.e. only Natural, DAP, or UREA, DAP mixed with UREA and Natural mixed with UREA or DAP.

As shown in summary Table B below, among the types of fertilizers used DAP was applied in larger cultivated crop area. Natural fertilizers and UREA were also applied to a considerable amount of crop area. In contrast, the area on which a mixture of Natural and Chemical fertilizers was applied was estimated to be very small at national level.

**Summary Table B. Total Fertilizer Applied Area by Type of Fertilizer**

Fertilizer type	Applied area ('000 HA)	Percent
Natural	806.38	22.75
DAP	1128.86	31.85
UREA	135.33	3.82
DAP+UREA	1367.45	38.58
Natural+Chemical	106.50	3.00
Total	3544.54	100.00

## **2.1 Natural Fertilizer Applied Area**

Out of the total fertilizer applied area which is 3.54 million hectares, Natural fertilizer was applied to 806.38 thousand hectares (22.75%). Of this area temporary and permanent crops accounted for about 561.30 thousand and 245.08 thousand hectares, respectively. See Table 2.1

## **2.2 DAP Applied Area**

The total DAP applied area was 1.13 million hectares, (31.85%) of the total fertilizer applied area at national level. Area under temporary and permanent crops accounted for 1.12 million and 4.41 thousand hectares of the total DAP applied area, respectively. Out of the total DAP applied area under temporary crops the largest was area under teff which accounted for 364.51 thousand hectares (32.29%). On the other hand area under coffee was the largest DAP applied area (about 2.18 thousand hectares) of all DAP applied area under permanent crops.

## **2.3 UREA Applied Area**

As presented in Table 2.1 of the total fertilizer applied area, total UREA applied area was about 135.33 thousand hectares (3.82%). UREA applied to temporary and permanent crop areas accounted for about 130.60 thousand hectares (96.50%) and 4.73 thousand hectares (3.50%), respectively.

## **2.4 Area with a Combination of DAP and UREA Applied**

Out of the total fertilizer applied area, the mixture of DAP and UREA was applied on an estimated area of 1.37 million hectares (38.58%). Temporary and permanent crop areas where the mixture of DAP and UREA was applied accounted for 1.36 million hectares (99.62%) and about 5.20 thousand hectares (0.38%) of the total DAP+UREA applied area, respectively. Of all the mixture of DAP and UREA applied area under temporary crops, area under teff was the largest with about 621.54 thousand hectares (45.45%) while area under Chat was the largest with about 2.85 thousand hectares (48.08%) among permanent crops.

## **2.5 Area with a Combination of Natural and Chemical Fertilizers Applied**

Out of the total fertilizer applied area, the mixture of Natural fertilizer and Chemical fertilizer was applied on only 106.50 thousand hectares (3.00%). Temporary and permanent crop areas with a mixture of Natural and Chemical fertilizers accounted for 100.21 thousand hectares (94.09%) and about 6.29 thousand hectares (5.91%), respectively.

TABLE 2.1

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

National

( '000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	3,004.01	84.75	440.65	54.65	1,025.85	90.87	120.01	88.68	1,324.63	96.87	92.88	87.21
Teff	1,124.80	31.73	49.35	6.12	364.51	32.29	64.77	47.86	621.54	45.45	24.62	23.12
Barely	320.28	9.04	51.17	6.35	193.91	17.18	7.80	5.76	55.55	4.06	11.86	11.14
Wheat	669.45	18.89	22.37	2.77	264.91	23.47	14.69	10.85	350.34	25.62	17.14	16.09
Maize	640.70	18.08	251.00	31.13	104.00	9.21	20.66	15.27	237.39	17.36	27.65	25.96
Sorghum	101.31	2.86	61.03	7.57	7.03	.62	6.82	5.04	17.45	1.28	8.99	8.44
Millet	134.22	3.79	4.88	.61	81.31	7.20	5.19	3.84	40.27	2.94	2.57	2.41
Oats	13.25	.37	.85	.11	10.18	.90	**	**	2.09	.15	**	**
PULSES	138.32	3.90	43.34	5.37	69.68	6.17	4.23	3.13	17.57	1.28	3.51	3.30
Horse Beans	69.63	1.96	27.87	3.46	32.18	2.85	1.36	1.00	6.44	.47	1.78	1.67
Field Peas	27.15	.77	2.66	.33	21.53	1.91	**	**	2.30	.17	**	**
Haricot Beans	28.55	.81	10.61	1.32	11.59	1.03	2.31	1.71	2.88	.21	1.16	1.09
Chick Peas	3.66	.10	1.25	.16	1.14	.10	**	**	.87	.06	**	**
Lentils	8.09	.23	.60	.07	2.68	.24	**	**	4.76	.35	**	**
Vetch	1.24	.03	.35	.04	.56	.05	-	-	.32	.02	-	-
OILSEEDS	31.83	.90	10.56	1.31	14.05	1.24	1.26	.93	5.42	.40	.54	.51
Neug	10.02	.28	3.59	.45	4.21	.37	**	**	1.62	.12	.03	.03
Lin Seed	4.52	.13	.45	.06	2.91	.26	**	**	1.01	.07	.03	.03
Rape seed	11.99	.34	4.46	.55	5.48	.49	**	**	1.47	.11	.38	.36
Ground Nuts	1.88	.05	1.20	.15	**	**	**	**	.28	.02	.03	.03
Sun Flower	.74	.02	.12	.01	**	**	**	**	.32	.02	**	**
Sesame	2.68	.08	**	**	**	**	**	**	.72	.05	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	104.64	2.95	66.75	8.28	14.87	1.32	5.10	3.77	14.63	1.07	3.28	3.08
Fenugreek	1.66	.05	.51	.06	.36	.03	**	**	.72	.05	-	-
Spices	20.78	.59	9.79	1.21	4.30	.38	2.38	1.76	4.12	.30	.18	.17
Potatoes	27.94	.79	13.02	1.61	6.35	.56	1.04	.77	5.76	.42	1.76	1.65
Other Vegetables	54.26	1.53	43.43	5.39	3.86	.34	1.60	1.18	4.03	.29	1.34	1.26
ALL TEMPORARY	3,278.80	92.50	561.30	69.61	1,124.45	99.61	130.60	96.50	1,362.25	99.62	100.21	94.09
Chat	31.95	.90	22.25	2.76	1.08	.10	2.15	1.59	2.85	.21	3.62	3.40
Coffee	39.50	1.11	33.75	4.19	2.18	.19	1.28	.95	1.36	.10	.92	.86
Enset	178.90	5.05	176.56	21.90	.50	.04	**	**	.18	.01	**	**
Cotton	1.75	.05	.53	.07	**	**	**	**	.38	.03	-	-
Tobaco	1.44	.04	1.28	.16	**	**	**	**	.05	-	**	**
Fruits	4.27	.12	3.58	.44	.34	.03	.06	.04	.12	.01	.16	.15
Other Permanent	7.93	.22	7.13	.88	.22	.02	.15	.11	.26	.02	.17	.16
TOTAL PERMANENT	265.74	7.50	245.08	30.39	4.41	.39	4.73	3.50	5.20	.38	6.29	5.91
ALL CROPS	3,544.54	100.00	806.38	100.00	1,128.86	100.00	135.33	100.00	1,367.45	100.00	106.50	100.00



TABLE 2.2

ESTIMATES OF FERTILIZER APPLIED AREA BY REGION AND BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

('000 HA)

REGION	TOTAL		NATURAL		DAP		UREA		DAP + UREA		NAT + COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
TIGRAY	204.80	5.78	78.00	9.66	9.38	.83	4.48	3.31	98.56	7.21	14.37	13.49
AFAR	.95	.03	.68	.08	.08	.01	.17	.13	.01	-	-	-
AMHARA	954.06	26.91	186.20	23.07	221.37	19.61	50.78	37.52	474.15	34.67	21.55	20.23
OROMIYA	1,807.67	50.99	274.61	34.02	733.27	64.96	60.31	44.57	679.75	49.71	59.73	56.08
SOMALIE	2.88	.08	2.85	.35	-	-	.01	.01	.03	-	-	-
BENSHANGUL-GUMUZ	19.71	.56	9.26	1.15	6.86	.61	.51	.38	2.72	.20	.36	.34
S.N.N.P.R.	541.00	15.26	252.49	31.28	157.07	13.91	17.52	12.95	104.88	7.67	9.04	8.49
GAMBELA	.08	-	-	-	.04	-	.02	.01	.02	-	-	-
HARARI	5.84	.16	1.72	.21	.16	.01	1.38	1.02	1.22	.09	1.36	1.28
ADDIS ABABA	6.86	.19	.05	.01	.59	.05	.05	.04	6.10	.45	.07	.07
DIRE DAWA	1.58	.04	1.39	.17	.03	-	.10	.07	.04	-	.02	.02
TOTAL	3,545.43	100.00	807.25	100.00	1,128.85	100.00	135.33	100.00	1,367.48	100.00	106.50	100.00

**FIG.2 ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR MAJOR CROPS OF PRIVATE PEASANT HOLDINGS, NATIONAL, 1999/2000(1992 E.C.)**

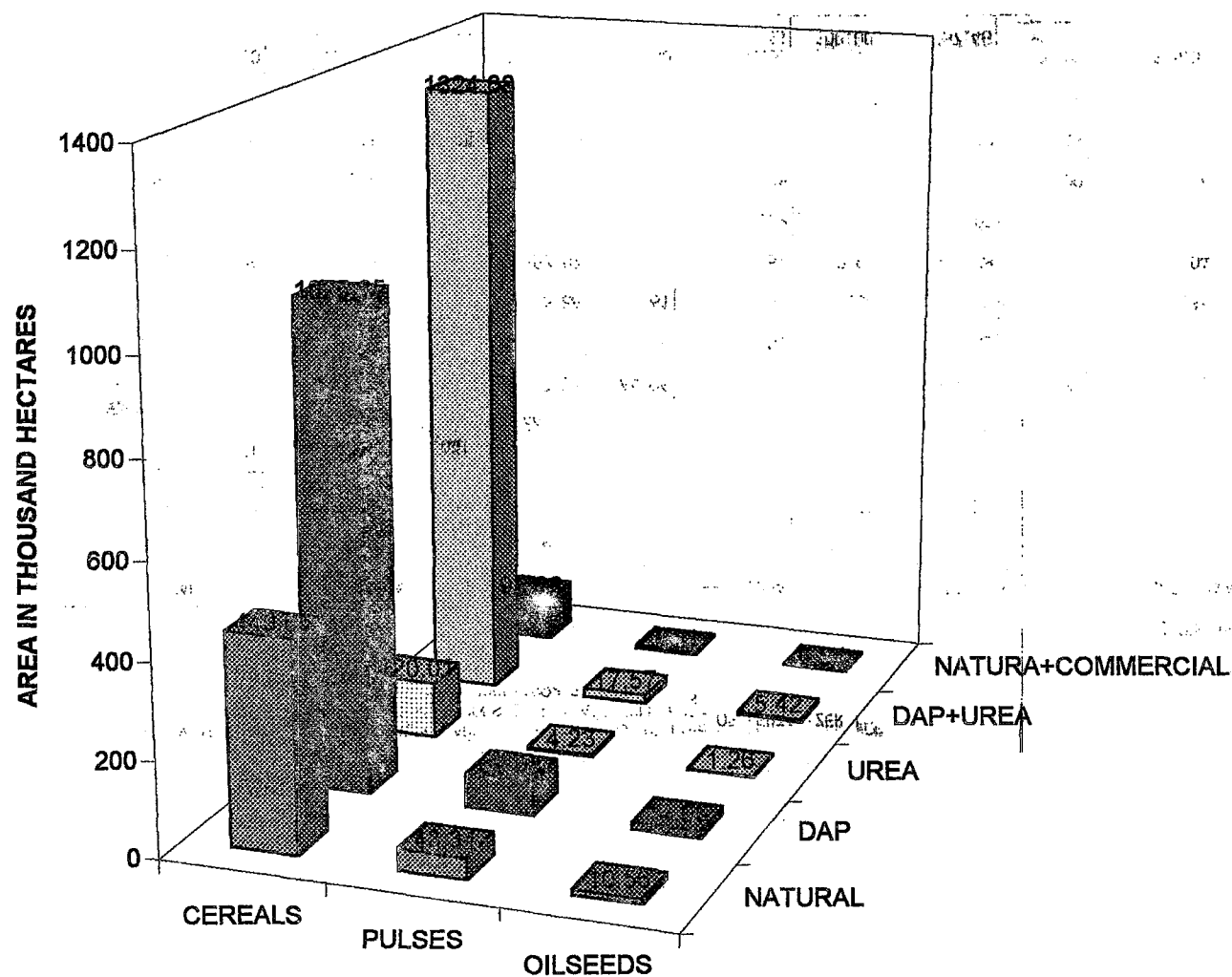


TABLE 2.3

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Tigray

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	199.35	97.34	75.01	96.19	8.14	86.87	4.36	97.10	97.55	98.99	14.28	99.44
Teff	54.16	26.45	3.19	4.09	2.11	22.52	1.56	34.74	44.73	45.39	2.57	17.90
Barely	33.58	16.40	13.43	17.22	2.02	21.56	1.32	29.40	14.15	14.36	2.65	18.45
Wheat	30.29	14.79	5.97	7.66	2.25	24.01	1.20	26.73	18.78	19.06	2.08	14.48
Maize	49.36	24.10	**	**	**	**	**	**	5.59	5.67	4.42	30.78
Sorghum	14.30	6.98	10.61	13.61	**	**	**	**	2.45	2.49	.83	5.78
Millet	17.66	8.62	2.65	3.40	**	**	.23	5.12	11.85	12.02	1.73	12.05
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	2.89	1.41	2.01	2.58	.08	.85	**	**	.65	.66	**	**
Horse Beans	1.93	.94	1.36	1.74	**	**	**	**	.44	.45	**	**
Field Peas	.38	.19	.27	.35	-	-	**	**	.08	.08	-	-
Haricot Beans	.04	.02	**	**	-	-	-	-	-	-	-	-
Chick Peas	.30	.15	.25	.32	**	**	**	**	-	-	-	-
Lentils	.11	.05	**	**	-	-	-	-	.03	.03	-	-
Vetch	.13	.06	**	**	-	-	-	-	.10	.10	-	-
OILSEEDS	2.15	1.05	**	**	**	**	-	-	.31	.31	**	**
Neug	.15	.07	**	**	-	-	-	-	-	-	-	-
Lin Seed	.33	.16	.12	.15	-	-	-	-	.21	.21	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.08	.04	-	-	-	-	-	-	.05	.05	.02	.14
Sesame	1.59	.78	**	**	**	**	-	-	.05	.05	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.28	.14	.17	.22	-	-	**	**	.04	.04	**	**
Fenugreek	.01	-	-	-	-	-	-	-	.01	.01	-	-
Spices	.12	.06	**	**	-	-	**	**	-	-	**	**
Potatoes	.03	.01	**	**	-	-	**	**	-	-	-	-
Other Vegetables	.12	.06	.06	.08	-	-	**	**	.03	.03	-	-
ALL TEMPORARY	204.67	99.94	77.85	99.83	9.37	100.00	4.49	100.00	98.55	100.00	14.36	100.00
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.01	-	**	**	-	-	-	-	-	-	-	-
Other Permanent	.12	.06	.12	.15	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.13	.06	.13	.17	-	-	-	-	-	-	-	-
ALL CROPS	204.80	100.00	77.98	100.00	9.37	100.00	4.49	100.00	98.55	100.00	14.36	100.00

TABLE 2.3.1

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

West Tigray Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	48.14	96.28	12.88	95.34	2.36	67.05	.22	100.00	26.84	99.74	5.84	99.83
Teff	16.81	33.62	**	**	.74	21.02	**	**	14.49	53.85	**	**
Barely	.07	.14	**	**	-	-	-	-	.07	.26	-	-
Wheat	.03	.06	-	-	-	-	-	-	.03	.11	-	-
Maize	14.77	29.54	7.92	58.62	**	**	**	**	3.26	12.11	**	**
Sorghum	5.31	10.62	**	**	**	**	-	-	1.21	4.50	**	**
Millet	11.15	22.30	1.12	8.29	**	**	**	**	7.78	28.91	**	**
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.09	.18	**	**	**	**	-	-	.02	.07	-	-
Horse Beans	.08	.16	**	**	-	-	-	-	.02	.07	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	.01	.02	-	-	**	**	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	1.66	3.32	**	**	**	**	-	-	.05	.19	-	-
Neug	.07	.14	**	**	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	1.59	3.18	**	**	**	**	-	-	.05	.19	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.06	.12	**	**	-	-	-	-	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.06	.12	**	**7	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	49.95	99.90	13.46	99.63	3.52	100.00	.22	100.00	26.91	100.00	5.85	100.00
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.01	.02	**	**	-	-	-	-	-	-	-	-
Other Permanent	.04	.08	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.05	.10	**	**	-	-	-	-	-	-	-	-
ALL CROPS	50.00	100.00	13.51	100.00	3.52	100.00	.22	100.00	26.91	100.00	5.85	100.00

TABLE 2.3.2

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Central Tigray Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	92.03	98.24	**	**	2.05	99.03	.76	100.00	40.75	98.67	4.10	98.80
Teff	28.38	30.29	1.79	3.95	.97	46.86	.44	57.89	24.09	58.33	1.08	26.02
Barely	7.77	8.29	2.68	5.91	**	**	**	**	4.18	10.12	**	**
Wheat	7.36	7.86	1.44	3.17	**	**	**	**	4.87	11.79	.35	8.43
Maize	33.69	35.96	**	**	-	-	-	-	2.31	5.59	1.01	24.34
Sorghum	8.37	8.93	6.59	14.53	**	**	**	**	1.24	3.00	**	**
Millet	6.46	6.90	1.48	3.26	-	-	.07	9.21	4.06	9.83	.84	20.24
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	1.20	1.28	.77	1.70	**	**	-	-	.36	.87	**	**
Horse Beans	.96	1.02	.68	1.50	**	**	-	-	.22	.53	**	**
Field Peas	.01	.01	-	-	-	-	-	-	.01	.02	-	-
Haricot Beans	.04	.04	**	**	-	-	-	-	-	-	-	-
Chick Peas	.06	.06	.06	.13	-	-	-	-	-	-	-	-
Lentils	.03	.03	-	-	-	-	-	-	.03	.07	-	-
Vetch	.10	.11	-	-	-	-	-	-	.10	.24	-	-
OILSEEDS	.32	.34	**	**	-	-	-	-	.17	.41	-	-
Neug	.08	.09	**	**	-	-	-	-	-	-	-	-
Lin Seed	.24	.26	**	**	-	-	-	-	.17	.41	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.12	.13	.10	.22	-	-	-	-	.02	.05	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.05	.05	**	**	-	-	-	-	-	-	-	-
Potatoes	.01	.01	**	**	-	-	-	-	-	-	-	-
Other Vegetables	.06	.06	**	**	-	-	-	-	.02	.05	-	-
ALL TEMPORARY	93.67	99.99	**	**	2.07	100.00	.76	100.00	41.30	100.00	4.15	100.00
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	.01	.01	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.01	.01	**	**	-	-	-	-	-	-	-	-
ALL CROPS	93.68	100.00	**	**	2.07	100.00	.76	100.00	41.30	100.00	4.15	100.00

TABLE 2.3.3

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

East Tigray Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	36.02	96.31	14.33	92.99	1.55	96.88	2.43	97.20	14.12	98.95	3.61	100.00
Teff	1.95	5.21	**	**	**	**	**	**	.78	5.47	**	**
Barely	19.48	52.09	9.81	63.66	.76	47.50	.89	35.60	5.97	41.84	**	**
Wheat	14.45	38.64	4.02	26.09	.75	46.88	.88	35.20	7.37	51.65	1.44	39.89
Maize	.05	.13	**	**	-	-	-	-	-	-	-	-
Sorghum	.03	.08	**	**	-	-	-	-	-	-	-	-
Millet	.06	.16	**	**	-	-	**	**	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	1.19	3.18	.94	6.10	**	**	**	**	.12	.84	-	-
Horse Beans	.65	1.74	.51	3.31	**	**	-	-	.09	.63	-	-
Field Peas	.26	.70	.20	1.30	-	-	**	**	.03	.21	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	.17	.45	**	**	-	-	**	**	-	-	-	-
Lentils	.08	.21	**	**	-	-	-	-	-	-	-	-
Vetch	.03	.08	**	**	-	-	-	-	-	-	-	-
OILSEEDS	.07	.19	.05	.32	-	-	-	-	.02	.14	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	.07	.19	.05	.32	-	-	-	-	.02	.14	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.04	.11	**	**	-	-	-	-	.01	.07	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	.01	.03	**	**	-	-	-	-	-	-	-	-
Other Vegetables	.03	.08	**	**	-	-	-	-	.01	.07	-	-
ALL TEMPORARY	37.32	99.79	15.34	99.55	1.60	100.00	2.50	100.00	14.27	100.00	3.61	100.00
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	.08	.21	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.08	.21	**	**	-	-	-	-	-	-	-	-
ALL CROPS	37.40	100.00	15.41	100.00	1.60	100.00	2.50	100.00	14.27	100.00	3.61	100.00

TABLE 2.3.4

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

South Tigray Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	23.16	97.64	3.45	93.24	2.19	100.00	**	**	15.84	98.51	**	**
Teff	7.02	29.60	.66	17.84	.36	16.44	.43	42.57	5.37	33.40	**	**
Barely	6.26	26.39	**	**	**	**	**	**	3.93	24.44	**	**
Wheat	8.44	35.58	**	**	**	**	.21	20.79	6.51	40.49	**	**
Maize	.84	3.54	.82	22.16	-	-	-	-	.03	.19	-	-
Sorghum	.60	2.53	.52	14.05	**	**	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.39	1.64	.24	6.49	-	-	**	**	.16	1.00	-	-
Horse Beans	.23	.97	.11	2.97	-	-	**	**	.12	.75	-	-
Field Peas	.10	.42	**	**	-	-	-	-	.04	.25	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	.06	.25	**	**	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.10	.42	-	-	-	-	-	-	.07	.44	.02	2.63
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	.02	.08	-	-	-	-	-	-	.02	.12	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.08	.34	-	-	-	-	-	-	.05	.31	**	**
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.07	.30	**	**	-	-	**	**	.01	.06	-	-
Fenugreek	.01	.04	-	-	-	-	-	-	.01	.06	-	-
Spices	.01	.04	-	-	-	-	**	**	-	-	-	-
Potatoes	.01	.04	-	-	-	-	**	**	-	-	-	-
Other Vegetables	.04	.17	**	**	-	-	**	**	-	-	-	-
ALL TEMPORARY	23.72	100.00	3.70	100.00	2.19	100.00	1.01	100.00	16.08	100.00	**	**
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	23.72	100.00	3.70	100.00	2.19	100.00	1.01	100.00	16.08	100.00	**	**

TABLE 2.4

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Afar

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	.84	88.42	.64	94.12	.07	77.78	**	**	.01	100.00	-	-
Teff	.34	35.79	**	**	.06	66.67	**	**	.01	100.00	-	-
Barely	.05	5.26	**	**	-	-	**	**	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.21	22.11	.21	30.88	**	**	-	-	-	-	-	-
Sorghum	.24	25.26	.23	33.82	-	-	**	**	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.01	1.05	-	-	-	-	**	**	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	.01	1.05	-	-	-	-	**	**	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.05	5.26	**	**	-	-	**	**	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.02	2.11	**	**	-	-	-	-	-	-	-	-
Sesame	.03	3.16	**	**	-	-	**	**	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.05	5.26	-	-	**	**	**	**	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.05	5.26	-	-	**	**	**	**	-	-	-	-
ALL TEMPORARY	.95	100.00	.68	100.00	.09	100.00	.17	100.00	.01	100.00	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.95	100.00	.68	100.00	.09	100.00	.17	100.00	.01	100.00	-	-



TABLE 2.4.1

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Zone 1 (Afar) Zone

( '000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	.04	100.00	.04	100.00	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.04	100.00	.04	100.00	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	.04	100.00	.04	100.00	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.04	100.00	.04	100.00	-	-	-	-	-	-	-	-

TABLE 2.4.2

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Zone 3 (Afar) Zone

( '000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	.80	87.91	.59	93.65	.07	77.78	**	**	.01	100.00	-	-
Teff	.34	37.36	**	**	.06	66.67	**	**	.01	100.00	-	-
Barely	.05	5.49	**	**	-	-	**	**	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.17	18.68	.16	25.40	.01	11.11	-	-	-	-	-	-
Sorghum	.24	26.37	.23	36.51	-	-	**	**	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.01	1.10	-	-	-	-	**	**	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	.01	1.10	-	-	-	-	**	**	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.05	5.49	**	**	-	-	**	**	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.02	2.20	**	**	-	-	-	-	-	-	-	-
Sesame	.03	3.30	**	**	-	-	**	**	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.05	5.49	-	-	.02	22.22	**	**	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.05	5.49	-	-	.02	22.22	**	**	-	-	-	-
ALL TEMPORARY	.91	100.00	.63	100.00	.09	100.00	.17	100.00	.01	100.00	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobaco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.91	100.00	.63	100.00	.09	100.00	.17	100.00	.01	100.00	-	-

TABLE 2.5

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Amhara

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	886.95	92.97	148.15	79.57	208.97	94.40	47.09	92.77	463.06	97.66	19.68	91.32
Teff	417.69	43.78	**	**	109.86	49.63	33.09	65.19	232.81	49.10	6.42	29.79
Barely	43.09	4.52	16.36	8.79	11.33	5.12	1.73	3.41	13.06	2.75	.61	2.83
Wheat	144.95	15.19	7.29	3.92	7.83	3.54	4.74	9.34	122.01	25.73	3.08	14.29
Maize	170.79	17.90	79.10	42.48	14.55	6.57	2.40	4.73	66.20	13.96	8.54	39.63
Sorghum	15.11	1.58	8.36	4.49	**	**	.66	1.30	4.65	.98	**	**
Millet	94.48	9.90	.98	.53	64.18	28.99	4.47	8.81	24.07	5.08	**	**
Oats	.84	.09	.55	.30	-	-	-	-	.26	.05	**	**
PULSES	25.71	2.69	14.97	8.04	4.52	2.04	.62	1.22	5.13	1.08	.44	2.04
Horse Beans	16.16	1.69	**	**	2.32	1.05	.45	.89	.97	.20	**	**
Field Peas	2.99	.31	**	**	1.83	.83	**	**	.11	.02	**	**
Haricot Beans	1.47	.15	1.14	.61	**	**	**	**	.24	.05	-	-
Chick Peas	.83	.09	.52	.28	-	-	-	-	.31	.07	-	-
Lentils	4.04	.42	**	**	**	**	**	**	3.39	.71	**	**
Vetch	.22	.02	**	**	-	-	-	-	.11	.02	-	-
OILSEEDS	15.88	1.66	5.86	3.15	5.57	2.52	.91	1.79	3.21	.68	.34	1.58
Neug	7.77	.81	2.32	1.25	3.89	1.76	**	**	1.04	.22	**	**
Lin Seed	.80	.08	.13	.07	**	**	**	**	.07	.01	-	-
Rape seed	5.93	.62	3.19	1.71	1.15	.52	.12	.24	1.19	.25	.28	1.30
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.57	.06	.09	.05	**	**	**	**	.24	.05	**	**
Sesame	.81	.08	.13	.07	-	-	-	-	.67	.14	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	19.46	2.04	12.48	6.70	2.27	1.03	1.28	2.52	2.37	.50	1.04	4.83
Fenugreek	.27	.03	.08	.04	-	-	**	**	.13	.03	-	-
Spices	7.99	.84	5.32	2.86	.18	.08	1.03	2.03	1.37	.29	.09	.42
Potatoes	6.51	.68	3.80	2.04	**	**	**	**	.48	.10	**	**
Other Vegetables	4.69	.49	3.28	1.76	.54	.24	.14	.28	.39	.08	**	**
ALL TEMPORARY	948.00	99.37	181.46	97.46	221.33	99.98	49.90	98.31	473.77	99.92	21.50	99.77
Chat	.73	.08	.73	.39	-	-	-	-	-	-	-	-
Coffee	1.63	.17	1.61	.86	-	-	**	**	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	1.28	.13	**	**	**	**	**	**	.38	.08	-	-
Tobacco	.03	-	.03	.02	-	-	-	-	-	-	-	-
Fruits	.32	.03	.32	.17	-	-	-	-	-	-	-	-
Other Permanent	2.06	.22	1.97	1.06	**	**	**	**	-	-	**	**
TOTAL PERMANENT	6.05	.63	4.73	2.54	**	**	**	**	.38	.08	**	**
ALL CROPS	954.05	100.00	186.19	100.00	221.37	100.00	50.76	100.00	474.15	100.00	21.55	100.00

TABLE 2.5.1

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

North Gonder Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	74.45	94.50	8.16	80.08	7.79	98.11	4.94	87.43	52.17	97.33	1.38	97.18
Teff	37.82	48.01	**	**	3.67	46.22	3.35	59.29	30.08	56.12	**	**
Barely	4.17	5.29	**	**	**	**	**	**	2.98	5.56	-	-
Wheat	3.10	3.94	**	**	**	**	-	-	2.57	4.79	**	**
Maize	13.72	17.42	7.10	69.68	**	**	**	**	5.87	10.95	-	-
Sorghum	4.94	6.27	**	**	**	**	**	**	3.11	5.80	-	-
Millet	10.64	13.51	**	**	1.92	24.18	**	**	7.50	13.99	**	**
Oats	.06	.08	-	-	-	-	-	-	.06	.11	-	-
PULSES	.34	.43	**	**	-	-	**	**	.12	.22	**	**
Horse Beans	.27	.34	**	**	-	-	**	**	.09	.17	**	**
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	.03	.04	-	-	-	-	-	-	.03	.06	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	.04	.05	.04	.39	-	-	-	-	-	-	-	-
OILSEEDS	1.20	1.52	**	**	**	**	**	**	.69	1.29	-	-
Neug	.37	.47	**	**	**	**	-	-	-	-	-	-
Lin Seed	.11	.14	**	**	-	-	**	**	.02	.04	-	-
Rape seed	.07	.09	**	**	**	**	**	**	.02	.04	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	.65	.83	-	-	-	-	-	-	.65	1.21	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	1.40	1.78	1.09	10.70	-	-	**	**	.31	.58	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.85	1.08	**	**	-	-	**	**	.31	.58	-	-
Potatoes	.40	.51	**	**	-	-	-	-	-	-	-	-
Other Vegetables	.15	.19	**	**	-	-	-	-	-	-	-	-
ALL TEMPORARY	77.39	98.24	9.75	95.68	7.92	99.75	5.03	89.03	53.29	99.42	1.42	100.00
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	.13	.17	**	**	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	.91	1.16	-	-	-	-	**	**	.31	.58	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.02	.03	**	**	-	-	-	-	-	-	-	-
Other Permanent	.33	.42	**	**	**	**	**	**	-	-	-	-
TOTAL PERMANENT	1.39	1.76	**	**	**	**	**	**	.31	.58	-	-
ALL CROPS	78.78	100.00	10.19	100.00	7.94	100.00	5.65	100.00	53.60	100.00	1.42	100.00

TABLE 2.5.2

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

South Gonder Zone

( '000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	82.90	94.09	11.61	85.24	7.43	82.01	5.98	96.45	56.07	97.84	1.82	92.86
Teff	44.56	50.57	**	**	**	**	3.80	61.29	34.29	59.83	1.10	56.12
Barely	4.44	5.04	**	**	**	**	**	**	2.71	4.73	-	-
Wheat	8.97	10.18	**	**	**	**	.61	9.84	7.66	13.37	-	-
Maize	13.49	15.31	9.35	68.65	**	**	**	**	3.23	5.64	.44	22.45
Sorghum	.01	.01	-	-	-	-	**	**	-	-	-	-
Millet	11.43	12.97	**	**	**	**	**	**	8.18	14.27	.28	14.29
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.37	.42	**	**	**	**	**	**	.02	.03	-	-
Horse Beans	.27	.31	**	**	-	-	**	**	.02	.03	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	.10	.11	-	-	**	**	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.52	.59	**	**	**	**	**	**	.32	.56	-	-
Neug	.30	.34	**	**	-	-	**	**	.24	.42	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	.21	.24	**	**	**	**	-	-	.07	.12	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.01	.01	-	-	-	-	-	-	.01	.02	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	4.22	4.79	1.63	11.97	**	**	.14	2.26	.90	1.57	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.87	.99	**	**	**	**	.12	1.94	.47	.82	-	-
Potatoes	3.01	3.42	1.25	9.18	**	**	-	-	.34	.59	**	**
Other Vegetables	.34	.39	.12	.88	**	**	**	**	.09	.16	-	-
ALL TEMPORARY	88.01	99.89	13.53	99.34	9.06	100.00	6.19	99.84	57.31	100.00	1.96	100.00
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	.01	.01	**	**	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	.01	.01	**	**	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	.08	.09	**	**	-	-	**	**	-	-	-	-
TOTAL PERMANENT	.10	.11	**	**	-	-	**	**	-	-	-	-
ALL CROPS	88.11	100.00	13.62	100.00	9.06	100.00	6.20	100.00	57.31	100.00	1.96	100.00

TABLE 2.5.3

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

North Wolo Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	17.21	93.84	6.45	86.00	**	**	1.59	98.76	7.82	99.24	1.06	100.00
Teff	3.91	21.32	**	**	**	**	**	**	2.06	26.14	**	**
Barely	4.47	24.37	3.92	52.27	-	-	.34	21.12	.17	2.16	**	**
Wheat	7.55	41.17	.66	8.80	**	**	**	**	5.48	69.54	.58	54.72
Maize	.82	4.47	.73	9.73	**	**	**	**	.04	.51	-	-
Sorghum	.26	1.42	**	**	-	-	**	**	-	-	-	-
Millet	.13	.71	**	**	-	-	**	**	.05	.63	-	-
Oats	.07	.38	**	**	-	-	-	-	.02	.25	-	-
PULSES	.79	4.31	.74	9.87	-	-	**	**	.03	.38	-	-
Horse Beans	.69	3.76	.66	8.80	-	-	-	-	.03	.38	-	-
Field Peas	.08	.44	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.02	.11	-	-	-	-	**	**	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.04	.22	.04	.53	-	-	-	-	.01	.13	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	.02	.11	**	**	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.01	.05	**	**	-	-	-	-	.01	.13	-	-
Sesame	.01	.05	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.14	.76	.12	1.60	-	-	-	-	.02	.25	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.04	.22	.02	.27	-	-	-	-	.02	.25	-	-
Potatoes	.04	.22	**	**	-	-	-	-	-	-	-	-
Other Vegetables	.06	.33	.06	.80	-	-	-	-	-	-	-	-
ALL TEMPORARY	18.18	99.13	7.35	98.00	**	**	1.61	100.00	7.88	100.00	1.06	100.00
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	.09	.49	**	**	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.05	.27	**	**	-	-	-	-	-	-	-	-
Other Permanent	.02	.11	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.16	.87	**	**	-	-	-	-	-	-	-	-
ALL CROPS	18.34	100.00	7.50	100.00	**	**	1.61	100.00	7.88	100.00	1.06	100.00

TABLE 2.5.4

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

South Wolo Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	51.19	91.79	13.26	77.59	.81	79.41	1.99	99.50	33.04	99.19	**	**
Teff	21.65	38.82	**	**	.56	54.90	**	**	16.62	49.89	**	**
Barely	3.39	6.08	3.13	18.31	**	**	**	**	.20	.60	**	**
Wheat	19.65	35.23	2.95	17.26	**	**	.56	28.00	14.83	44.52	**	**
Maize	2.00	3.59	1.86	10.88	**	**	-	-	.08	.24	-	-
Sorghum	4.11	7.37	**	**	-	-	**	**	1.28	3.84	-	-
Millet	.01	.02	**	**	-	-	-	-	-	-	-	-
Oats	.38	.68	**	**	-	-	-	-	.03	.09	**	**
PULSES	2.68	4.81	2.27	13.28	**	**	-	-	.19	.57	**	**
Horse Beans	1.61	2.89	1.23	7.20	**	**	-	-	.15	.45	**	**
Field Peas	.21	.38	.21	1.23	-	-	-	-	-	-	-	-
Haricot Beans	.50	.90	.47	2.75	-	-	-	-	.04	.12	-	-
Chick Peas	.04	.07	**	**	-	-	-	-	-	-	-	-
Lentils	.27	.48	**	**	-	-	-	-	-	-	-	-
Vetch	.05	.09	**	**	-	-	-	-	-	-	-	-
OILSEEDS	.06	.11	**	**	-	-	-	-	.03	.09	-	-
Neug	.02	.04	**	**	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.03	.05	-	-	-	-	-	-	.03	.09	-	-
Sesame	.01	.02	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	1.18	2.12	.88	5.15	-	-	-	-	.05	.15	**	**
Fenugreek	.06	.11	**	**	-	-	-	-	.04	.12	-	-
Spices	.60	1.08	.59	3.45	-	-	-	-	.01	.03	-	-
Potatoes	.04	.07	**	**	-	-	-	-	-	-	-	-
Other Vegetables	.48	.86	.23	1.35	-	-	-	-	-	-	**	**
ALL TEMPORARY	55.11	98.82	16.44	96.20	1.02	100.00	1.99	99.50	33.31	100.00	**	**
Chat	.17	.30	**	**	-	-	-	-	-	-	-	-
Coffee	.36	.65	**	**	-	-	**	**	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.01	.02	**	**	-	-	-	-	-	-	-	-
Other Permanent	.12	.22	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.66	1.18	**	**	-	-	**	**	-	-	-	-
ALL CROPS	55.77	100.00	17.09	100.00	1.02	100.00	2.00	100.00	33.31	100.00	**	**

TABLE 2.5.5

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

North Shewa(Amhara) Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	111.56	88.20	7.46	42.41	**	**	4.91	92.12	89.03	95.63	1.90	97.44
Teff	40.53	32.04	3.10	17.62	**	**	3.75	70.36	28.19	30.28	**	**
Barely	4.87	3.85	**	**	**	**	**	**	.54	.58	**	**
Wheat	62.60	49.49	.43	2.44	**	**	.99	18.57	59.66	64.08	**	**
Maize	1.80	1.42	1.43	8.13	-	-	-	-	.35	.38	**	**
Sorghum	1.61	1.27	1.28	7.28	**	**	**	**	.14	.15	**	**
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	.15	.12	-	-	-	-	-	-	.15	.16	-	-
PULSES	12.95	10.24	**	**	**	**	**	**	3.89	4.18	**	**
Horse Beans	8.58	6.78	**	**	-	-	**	**	.02	.02	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.46	.36	**	**	**	**	-	-	.20	.21	-	-
Chick Peas	.28	.22	-	-	-	-	-	-	.28	.30	-	-
Lentils	3.63	2.87	**	**	**	**	**	**	3.39	3.64	**	**
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.36	.28	**	**	-	-	**	**	.13	.14	**	**
Neug	.02	.02	**	**	-	-	-	-	-	-	-	-
Lin Seed	.02	.02	-	-	-	-	**	**	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.29	.23	**	**	-	-	**	**	.11	.12	**	**
Sesame	.03	.02	**	**	-	-	-	-	.02	.02	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	1.18	.93	**	**	-	-	**	**	.05	.05	-	-
Fenugreek	.10	.08	**	**	-	-	**	**	.04	.04	-	-
Spices	.70	.55	**	**	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.38	.30	**	**	-	-	**	**	.01	.01	-	-
ALL TEMPORARY	126.05	99.65	17.15	97.50	8.51	100.00	5.33	100.00	93.10	100.00	1.95	100.00
Chat	.01	.01	**	**	-	-	-	-	-	-	-	-
Coffee	.28	.22	**	**	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.10	.08	**	**	-	-	-	-	-	-	-	-
Other Permanent	.05	.04	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.44	.35	**	**	-	-	-	-	-	-	-	-
ALL CROPS	126.49	100.00	17.59	100.00	8.51	100.00	5.33	100.00	93.10	100.00	1.95	100.00



TABLE 2.5.6

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

East Gojam Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	223.14	96.14	12.36	72.07	57.14	95.84	14.19	96.99	136.31	99.22	**	**
Teff	152.86	65.86	1.52	8.86	47.04	78.90	12.71	86.88	90.68	66.01	**	**
Barely	9.12	3.93	**	**	2.78	4.66	**	**	5.30	3.86	**	**
Wheat	36.88	15.89	**	**	4.08	6.84	1.17	8.00	30.66	22.32	**	**
Maize	24.00	10.34	9.34	54.46	**	**	**	**	9.67	7.04	**	**
Sorghum	.21	.09	-	-	-	-	-	-	-	-	**	**
Millet	.07	.03	-	-	**	**	**	**	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	3.29	1.42	.99	5.77	1.63	2.73	**	**	.57	.41	**	**
Horse Beans	1.81	.78	.51	2.97	.92	1.54	-	-	.36	.26	**	**
Field Peas	.89	.38	-	-	**	**	**	**	.10	.07	**	**
Haricot Beans	.18	.08	.18	1.05	-	-	-	-	-	-	-	-
Chick Peas	.29	.12	**	**	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	.12	.05	**	**	-	-	-	-	.11	.08	-	-
OILSEEDS	2.59	1.12	1.04	6.06	**	**	**	**	.37	.27	**	**
Neug	.73	.31	-	-	**	**	**	**	.10	.07	-	-
Lin Seed	.19	.08	-	-	**	**	-	-	.01	.01	-	-
Rape seed	1.56	.67	1.04	6.06	**	**	**	**	.18	.13	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.11	.05	-	-	**	**	**	**	.08	.06	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	2.13	.92	1.81	10.55	**	**	**	**	.13	.09	**	**
Fenugreek	.07	.03	**	**	-	-	-	-	.06	.04	-	-
Spices	.69	.30	**	**	**	**	**	**	.05	.04	-	-
Potatoes	.53	.23	**	**	-	-	-	-	-	-	**	**
Other Vegetables	.84	.36	**	**	**	**	**	**	.02	.01	**	**
ALL TEMPORARY	231.15	99.59	16.20	94.46	59.62	100.00	14.63	100.00	137.38	100.00	**	**
Chat	.02	.01	**	**	-	-	-	-	-	-	-	-
Coffee	.15	.06	**	**	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	.02	.01	**	**	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.04	.02	**	**	-	-	-	-	-	-	-	-
Other Permanent	.72	.31	.72	4.20	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.95	.41	.95	5.54	-	-	-	-	-	-	-	-
ALL CROPS	232.10	100.00	17.15	100.00	59.62	100.00	14.63	100.00	137.38	100.00	**	**

TABLE 2.5.7

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

West Gojam Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	217.87	91.95	32.91	81.78	88.48	92.95	10.80	86.75	79.88	96.63	5.79	90.33
Teff	74.39	31.40	**	**	39.02	40.99	6.06	48.67	28.68	34.69	**	**
Barely	3.83	1.62	**	**	1.88	1.97	**	**	1.11	1.34	-	-
Wheat	3.78	1.60	**	**	**	**	**	**	.52	.63	-	-
Maize	90.20	38.07	31.16	77.44	9.91	10.41	1.48	11.89	42.32	51.19	**	**
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	45.61	19.25	**	**	35.85	37.66	**	**	7.25	8.77	-	-
Oats	.06	.03	**	**	-	-	-	-	-	-	-	-
PULSES	3.25	1.37	1.01	2.51	1.57	1.65	**	**	.28	.34	**	**
Horse Beans	2.37	1.00	.62	1.54	1.07	1.12	**	**	.28	.34	**	**
Field Peas	.59	.25	**	**	**	**	-	-	-	-	-	-
Haricot Beans	.19	.08	**	**	-	-	-	-	-	-	-	-
Chick Peas	.10	.04	.10	.25	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	8.83	3.73	2.31	5.74	4.46	4.69	**	**	1.57	1.90	.16	2.50
Neug	5.25	2.22	**	**	**	**	**	**	.70	.85	-	-
Lin Seed	.41	.17	-	-	**	**	**	**	.04	.05	-	-
Rape seed	3.08	1.30	1.28	3.18	**	**	**	**	.83	1.00	.16	2.50
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.09	.04	**	**	**	**	**	**	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	5.83	2.46	3.17	7.88	.66	.69	**	**	.87	1.05	.18	2.81
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	3.85	1.62	2.24	5.57	**	**	**	**	.51	.62	.09	1.40
Potatoes	.54	.23	**	**	.19	.20	**	**	.09	.11	**	**
Other Vegetables	1.44	.61	.71	1.76	.35	.37	**	**	.27	.33	**	**
ALL TEMPORARY	235.78	99.51	39.40	97.91	95.17	99.98	12.24	98.31	82.60	99.92	6.38	99.53
Chat	.02	.01	**	**	-	-	-	-	-	-	-	-
Coffee	.22	.09	**	**	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	.34	.14	**	**	**	**	**	**	.07	.08	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	.58	.24	.55	1.37	-	-	-	-	-	-	**	**
TOTAL PERMANENT	1.16	.49	.84	2.09	**	**	**	**	.07	.08	**	**
ALL CROPS	236.94	100.00	40.24	100.00	95.19	100.00	12.45	100.00	82.67	100.00	6.41	100.00

TABLE 2.5.8

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Waghamera Zone

( '000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	3.12	97.50	**	**	.04	100.00	.28	93.33	.13	100.00	-	-
Teff	.42	13.13	**	**	.04	100.00	**	**	.07	53.85	-	-
Barely	.16	5.00	**	**	-	-	**	**	.06	46.15	-	-
Wheat	.06	1.88	**	**	-	-	**	**	-	-	-	-
Maize	.28	8.75	.28	10.22	-	-	-	-	-	-	-	-
Sorghum	2.20	68.75	**	**	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.02	.63	**	**	-	-	-	-	-	-	-	-
Horse Beans	.01	.31	**	**	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	.01	.31	**	**	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.05	1.56	**	**	-	-	**	**	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.02	.63	-	-	-	-	**	**	-	-	-	-
Sesame	.03	.94	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	3.19	99.69	**	**	.04	100.00	.30	100.00	.13	100.00	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.01	.31	**	**	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.01	.31	**	**	-	-	-	-	-	-	-	-
ALL CROPS	3.20	100.00	**	**	.04	100.00	.30	100.00	.13	100.00	-	-

TABLE 2.5.9

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Agewawia Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	101.30	92.91	50.06	89.54	38.51	97.52	2.11	92.14	8.23	97.98	2.39	81.29
Teff	40.76	37.38	**	**	10.48	26.54	1.45	63.32	1.98	23.57	**	**
Barely	8.49	7.79	5.47	9.78	2.52	6.38	**	**	-	-	**	**
Wheat	2.23	2.05	.75	1.34	.54	1.37	**	**	.63	7.50	**	**
Maize	23.23	21.31	16.83	30.10	.56	1.42	**	**	4.53	53.93	**	**
Sorghum	.03	.03	**	**	-	-	-	-	-	-	-	-
Millet	26.53	24.33	.58	1.04	24.41	61.81	**	**	1.09	12.98	**	**
Oats	.03	.03	**	**	-	-	-	-	-	-	-	-
PULSES	1.76	1.61	.80	1.43	.74	1.87	**	**	.03	.36	**	**
Horse Beans	.43	.39	.26	.47	.12	.30	**	**	.02	.24	-	-
Field Peas	1.21	1.11	**	**	.62	1.57	**	**	.01	.12	**	**
Haricot Beans	.03	.03	**	**	-	-	-	-	-	-	-	-
Chick Peas	.09	.08	**	**	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	2.12	1.94	1.82	3.26	.13	.33	**	**	.09	1.07	**	**
Neug	1.07	.98	.96	1.72	.09	.23	-	-	-	-	**	**
Lin Seed	.04	.04	**	**	-	-	-	-	-	-	-	-
Rape seed	1.01	.93	.82	1.47	.04	.10	**	**	.09	1.07	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	3.31	3.04	2.70	4.83	.11	.28	**	**	.05	.60	**	**
Fenugreek	.03	.03	.03	.05	-	-	-	-	-	-	-	-
Spices	.36	.33	**	**	-	-	-	-	-	-	-	-
Potatoes	1.94	1.78	1.38	2.47	.08	.20	**	**	.05	.60	**	**
Other Vegetables	.98	.90	.93	1.66	.03	.08	**	**	-	-	-	-
ALL TEMPORARY	108.49	99.50	55.38	99.05	39.49	100.00	2.29	100.00	8.40	100.00	2.93	99.66
Chat	.01	.01	**	**	-	-	-	-	-	-	-	-
Coffee	.31	.28	**	**	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.08	.07	**	**	-	-	-	-	-	-	-	-
Other Permanent	.14	.13	.13	.23	-	-	-	-	-	-	**	**
TOTAL PERMANENT	.54	.50	**	**	-	-	-	-	-	-	**	**
ALL CROPS	109.03	100.00	55.91	100.00	39.49	100.00	2.29	100.00	8.40	100.00	2.94	100.00

TABLE 2.5.10

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Oromia Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	4.23	81.35	3.24	76.96	**	**	.30	100.00	.37	100.00	**	**
Teff	.79	15.19	.34	8.08	**	**	**	**	.15	40.54	**	**
Barely	.16	3.08	**	**	-	-	-	-	-	-	-	-
Wheat	.13	2.50	**	**	-	-	-	-	-	-	-	-
Maize	1.25	24.04	1.02	24.23	**	**	**	**	.10	27.03	**	**
Sorghum	1.74	33.46	**	**	-	-	**	**	.12	32.43	-	-
Millet	.07	1.35	**	**	-	-	-	-	-	-	-	-
Oats	.09	1.73	**	**	-	-	-	-	-	-	-	-
PULSES	.22	4.23	**	**	-	-	-	-	-	-	-	-
Horse Beans	.12	2.31	**	**	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.08	1.54	**	**	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	.02	.38	**	**	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.09	1.73	**	**	-	-	-	-	-	-	-	-
Neug	.01	.19	**	**	-	-	-	-	-	-	-	-
Lin Seed	.01	.19	**	**	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	.07	1.35	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.05	.96	.05	1.19	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.03	.58	.03	.71	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.02	.38	.02	.48	-	-	-	-	-	-	-	-
ALL TEMPORARY	4.59	88.27	3.60	85.51	**	**	.30	100.00	.37	100.00	**	**
Chat	.50	9.62	**	**	-	-	-	-	-	-	-	-
Coffee	.07	1.35	**	**	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.02	.38	**	**	-	-	-	-	-	-	-	-
Fruits	.01	.19	**	**	-	-	-	-	-	-	-	-
Other Permanent	.01	.19	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.61	11.73	**	**	-	-	-	-	-	-	-	-
ALL CROPS	5.20	100.00	4.21	100.00	**	**	.30	100.00	.37	100.00	**	**

TABLE 2.6

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Oromia

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	1,601.70	88.62	163.38	59.53	672.85	91.76	54.48	90.30	659.07	96.96	51.93	86.96
Teff	563.29	31.16	8.30	3.02	196.97	26.86	24.20	40.11	319.09	46.94	14.73	24.67
Barely	218.96	12.11	15.69	5.72	167.57	22.85	3.94	6.53	23.42	3.45	**	**
Wheat	435.60	24.10	7.08	2.58	224.60	30.63	7.56	12.53	185.44	27.28	10.92	18.29
Maize	297.61	16.47	100.64	36.67	55.78	7.61	13.65	22.63	116.98	17.21	10.57	17.70
Sorghum	55.51	3.07	30.43	11.09	3.88	.53	4.79	7.94	9.10	1.34	7.31	12.24
Millet	18.39	1.02	**	**	13.89	1.89	**	**	3.22	.47	**	**
Oats	12.34	.68	.27	.10	10.16	1.39	**	**	1.82	.27	**	**
PULSES	75.08	4.15	16.63	6.06	46.15	6.29	1.78	2.95	8.23	1.21	2.30	3.85
Horse Beans	39.97	2.21	11.49	4.19	22.62	3.08	.76	1.26	3.86	.57	**	**
Field Peas	18.10	1.00	.92	.34	14.93	2.04	-	-	1.89	.28	**	**
Haricot Beans	11.34	.63	3.75	1.37	5.40	.74	.74	1.23	.83	.12	**	**
Chick Peas	1.59	.09	**	**	**	**	.28	.46	.42	.06	**	**
Lentils	3.46	.19	**	**	2.05	.28	-	-	1.21	.18	-	-
Vetch	.62	.03	**	**	**	**	-	-	.02	-	-	-
OILSEEDS	12.04	.67	2.82	1.03	7.19	.98	.26	.43	1.62	.24	.16	.27
Neug	1.21	.07	.49	.18	**	**	**	**	.33	.05	-	-
Lin Seed	3.25	.18	**	**	2.34	.32	-	-	.70	.10	**	**
Rape seed	5.91	.33	1.18	.43	**	**	**	**	.28	.04	**	**
Ground Nuts	1.53	.08	**	**	**	**	**	**	.28	.04	**	**
Sun Flower	.06	-	**	**	**	**	**	**	.03	-	-	-
Sesame	.08	-	**	**	**	**	**	**	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	38.24	2.12	20.30	7.40	6.00	.82	2.23	3.70	7.81	1.15	1.92	3.22
Fenugreek	1.18	.07	.38	.14	.28	.04	**	**	.50	.07	-	-
Spices	3.64	.20	2.42	.88	.55	.08	**	**	.20	.03	**	**
Potatoes	12.28	.68	3.12	1.14	3.19	.44	.86	1.43	4.04	.59	1.08	1.81
Other Vegetables	21.14	1.17	14.38	5.24	1.98	.27	.88	1.46	3.07	.45	.83	1.39
ALL TEMPORARY	1,727.06	95.55	203.13	74.01	732.19	99.85	58.75	97.38	676.73	99.56	56.31	94.29
Chat	19.90	1.10	12.75	4.65	.51	.07	1.42	2.35	2.22	.33	3.00	5.02
Coffee	8.59	.48	7.36	2.68	.34	.05	**	**	.50	.07	**	**
Enset	47.96	2.65	47.81	17.42	**	**	-	-	.01	-	**	**
Cotton	.01	-	**	**	-	-	-	-	-	-	-	-
Tobacco	.75	.04	.73	.27	-	-	-	-	-	-	**	**
Fruits	1.20	.07	.94	.34	**	**	**	**	.08	.01	**	**
Other Permanent	2.00	.11	1.74	.63	**	**	-	-	.19	.03	**	**
TOTAL PERMANENT	80.41	4.45	71.34	25.99	1.08	.15	1.58	2.62	3.00	.44	3.41	5.71
ALL CROPS	1,807.47	100.00	274.47	100.00	733.27	100.00	60.33	100.00	679.73	100.00	59.72	100.00

TABLE 2.6.1

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

West Welega Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	80.14	95.11	19.97	84.51	19.25	99.79	.94	94.95	36.35	99.40	3.63	96.80
Teff	18.91	22.44	.34	1.44	9.72	50.39	**	**	8.55	23.38	.23	6.13
Barely	.60	.71	.50	2.12	**	**	-	-	.07	.19	-	-
Wheat	.18	.21	**	**	**	**	-	-	.03	.08	-	-
Maize	42.40	50.32	15.32	64.83	1.34	6.95	.33	33.33	22.90	62.62	2.51	66.93
Sorghum	7.22	8.57	3.38	14.30	**	**	**	**	2.08	5.69	**	**
Millet	10.83	12.85	**	**	7.57	39.24	**	**	2.72	7.44	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	1.49	1.77	1.46	6.18	-	-	-	-	.01	.03	-	-
Horse Beans	.68	.81	.66	2.79	-	-	-	-	.01	.03	-	-
Field Peas	.08	.09	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.66	.78	.65	2.75	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	.07	.08	**	**	-	-	-	-	-	-	-	-
OILSEEDS	.09	.11	**	**	-	-	-	-	-	-	**	**
Neug	.05	.06	**	**	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	.04	.05	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	1.75	2.08	1.54	6.52	**	**	**	**	.08	.22	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.33	.39	.32	1.35	-	-	-	-	-	-	-	-
Potatoes	.70	.83	.63	2.67	**	**	**	**	.02	.05	**	**
Other Vegetables	.72	.85	.59	2.50	**	**	**	**	.06	.16	-	-
ALL TEMPORARY	83.47	99.06	23.04	97.50	19.29	100.00	.99	100.00	36.44	99.64	3.67	97.87
Chat	.05	.06	**	**	-	-	-	-	.01	.03	-	-
Coffee	.33	.39	.22	.93	-	-	-	-	.09	.25	**	**
Enset	.04	.05	**	**	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.07	.08	**	**	-	-	-	-	-	-	**	**
Fruits	.25	.30	.19	.80	-	-	-	-	.02	.05	**	**
Other Permanent	.05	.06	**	**	-	-	-	-	.01	.03	-	-
TOTAL PERMANENT	.79	.94	.59	2.50	-	-	-	-	.13	.36	**	**
ALL CROPS	84.26	100.00	23.63	100.00	19.29	100.00	.99	100.00	36.57	100.00	3.75	100.00

TABLE 2.6.2

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

East Welega Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	154.10	94.98	22.59	81.03	71.08	97.76	14.91	97.26	42.37	98.17	**	**
Teff	76.42	47.10	**	**	52.13	71.70	**	**	8.03	18.61	**	**
Barely	2.24	1.38	.70	2.51	**	**	-	-	.43	1.00	**	**
Wheat	6.81	4.20	.15	.54	2.23	3.07	**	**	4.25	9.85	**	**
Maize	60.30	37.17	17.80	63.85	**	**	**	**	29.00	67.19	**	**
Sorghum	.99	.61	.68	2.44	**	**	-	-	.25	.58	-	-
Millet	7.31	4.51	**	**	6.24	8.58	**	**	.38	.88	**	**
Oats	.03	.02	-	-	-	-	-	-	.03	.07	-	-
PULSES	3.12	1.92	2.16	7.75	.81	1.11	-	-	.17	.39	-	-
Horse Beans	2.53	1.56	1.93	6.92	.49	.67	-	-	.12	.28	-	-
Field Peas	.57	.35	.21	.75	**	**	-	-	.05	.12	-	-
Haricot Beans	.02	.01	**	**	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	1.96	1.21	.66	2.37	**	**	**	**	.53	1.23	.01	.31
Neug	.91	.56	**	**	**	**	**	**	.27	.63	-	-
Lin Seed	.10	.06	**	**	**	**	-	-	-	-	-	-
Rape seed	.92	.57	.25	.90	**	**	**	**	.26	.60	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	.03	.02	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	2.61	1.61	2.02	7.25	**	**	**	**	.09	.21	**	**
Fenugreek	.07	.04	**	**	**	**	-	-	-	-	-	-
Spices	1.43	.88	1.00	3.59	**	**	**	**	.07	.16	**	**
Potatoes	.52	.32	.52	1.87	-	-	-	-	-	-	-	-
Other Vegetables	.59	.36	.43	1.54	**	**	-	-	.02	.05	**	**
ALL TEMPORARY	161.79	99.72	27.43	98.39	72.71	100.00	15.33	100.00	43.16	100.00	**	**
Chat	.01	.01	**	**	-	-	-	-	-	-	-	-
Coffee	.10	.06	**	**	-	-	-	-	-	-	-	-
Enset	.03	.02	**	**	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.08	.05	**	**	-	-	-	-	-	-	-	-
Fruits	.07	.04	**	**	-	-	-	-	-	-	-	-
Other Permanent	.16	.10	.16	.57	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.45	.28	.45	1.61	-	-	-	-	-	-	-	-
ALL CROPS	162.24	100.00	27.88	100.00	72.71	100.00	15.33	100.00	43.16	100.00	**	**



TABLE 2.6.3

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Illibabor Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	38.16	97.47	3.03	76.71	9.60	99.90	1.86	100.00	22.70	99.78	.96	97.96
Teff	14.23	36.35	**	**	8.39	87.30	**	**	5.51	24.22	**	**
Barely	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	.20	.51	-	-	**	**	**	**	.10	.44	-	-
Maize	22.89	58.47	2.48	62.78	.85	8.84	**	**	17.09	75.12	.79	80.61
Sorghum	.84	2.15	.53	13.42	**	**	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.35	.89	**	**	-	-	-	-	.03	.13	-	-
Horse Beans	.02	.05	**	**	-	-	-	-	-	-	-	-
Field Peas	.04	.10	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.29	.74	**	**	-	-	-	-	.03	.13	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.08	.20	**	**	-	-	-	-	-	-	-	-
Neug	.08	.20	**	**	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.12	.31	.12	3.04	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.09	.23	.09	2.28	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.03	.08	.03	.76	-	-	-	-	-	-	-	-
ALL TEMPORARY	38.71	98.88	3.56	90.13	9.60	99.90	**	**	22.73	99.91	.96	97.96
Chat	.12	.31	.12	3.04	-	-	-	-	-	-	-	-
Coffee	.08	.20	**	**	**	**	-	-	.02	.09	-	-
Enset	.13	.33	.13	3.29	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.01	.03	**	**	-	-	-	-	-	-	**	**
Fruits	.08	.20	.06	1.52	-	-	-	-	-	-	-	-
Other Permanent	.02	.05	.02	.51	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.44	1.12	.39	9.87	**	**	-	-	.02	.09	**	**
ALL CROPS	39.15	100.00	3.95	100.00	9.61	100.00	**	**	22.75	100.00	.98	100.00

TABLE 2.6.4

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Jimma Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	112.73	86.46	12.54	43.82	61.18	97.87	**	**	33.86	99.68	1.42	93.42
Teff	65.97	50.60	.20	.70	45.68	73.08	**	**	16.58	48.81	**	**
Barely	2.76	2.12	**	**	**	**	-	-	.15	.44	-	-
Wheat	5.01	3.84	**	**	**	**	**	**	.50	1.47	-	-
Maize	38.12	29.24	11.37	39.73	8.65	13.84	**	**	16.63	48.95	1.01	66.45
Sorghum	.70	.54	.66	2.31	-	-	**	**	-	-	-	-
Millet	.06	.05	-	-	**	**	-	-	-	-	-	-
Oats	.11	.08	-	-	**	**	-	-	-	-	-	-
PULSES	1.50	1.15	.34	1.19	**	**	-	-	.06	.18	-	-
Horse Beans	.82	.63	**	**	**	**	-	-	-	-	-	-
Field Peas	.26	.20	**	**	**	**	-	-	.05	.15	-	-
Haricot Beans	.15	.12	**	**	**	**	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	.27	.21	**	**	**	**	-	-	.01	.03	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.10	.08	**	**	**	**	-	-	.02	.06	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	.09	.07	-	-	**	**	-	-	.02	.06	-	-
Rape seed	.01	.01	**	**	.03	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	4.85	3.72	4.70	16.42	**	**	-	-	.01	.03	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.07	.05	**	**	**	**	-	-	-	-	-	-
Potatoes	.06	.05	**	**	-	-	-	-	-	-	-	-
Other Vegetables	4.72	3.62	4.58	16.00	**	**	-	-	.01	.03	-	-
ALL TEMPORARY	119.18	91.41	17.59	61.46	62.47	99.94	**	**	33.95	99.94	1.42	93.42
Chat	1.74	1.33	1.70	5.94	**	**	-	-	-	-	**	**
Coffee	1.10	.84	1.05	3.67	-	-	-	-	.02	.06	**	**
Enset	8.01	6.14	7.93	27.71	**	**	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.01	.01	**	**	-	-	-	-	-	-	-	-
Fruits	.15	.12	.15	.52	-	-	-	-	-	-	-	-
Other Permanent	.19	.15	.19	.66	-	-	-	-	-	-	-	-
TOTAL PERMANENT	11.20	8.59	11.03	38.54	**	**	-	-	.02	.06	.10	6.58
ALL CROPS	130.38	100.00	28.62	100.00	62.51	100.00	**	**	33.97	100.00	1.52	100.00

TABLE 2.6.5

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

West Shewa Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	299.70	89.10	17.70	36.96	41.53	91.88	4.84	94.35	210.89	98.95	24.75	98.80
Teff	179.19	53.27	1.91	3.99	19.20	42.48	4.02	78.36	144.50	67.80	9.57	38.20
Barely	34.09	10.13	3.08	6.43	12.16	26.90	**	**	11.66	5.47	**	**
Wheat	63.82	18.97	2.61	5.45	6.96	15.40	**	**	45.90	21.54	**	**
Maize	21.98	6.53	9.54	19.92	**	**	**	**	8.81	4.13	**	**
Sorghum	.53	.16	**	**	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	.09	.03	**	**	**	**	-	-	.02	.01	-	-
PULSES	6.78	2.02	1.77	3.70	**	**	**	**	1.26	.59	**	**
Horse Beans	2.83	.84	1.56	3.26	**	**	-	-	.40	.19	**	**
Field Peas	1.94	.58	**	**	**	**	-	-	.23	.11	-	-
Haricot Beans	.01	-	**	**	-	-	-	-	-	-	-	-
Chick Peas	.78	.23	-	-	**	**	**	**	-	-	-	-
Lentils	1.10	.33	**	**	**	**	-	-	.63	.30	-	-
Vetch	.12	.04	.10	.21	**	**	-	-	-	-	-	-
OILSEEDS	1.50	.45	.83	1.73	**	**	-	-	.59	.28	**	**
Neug	.07	.02	-	-	**	**	-	-	-	-	-	-
Lin Seed	.68	.20	**	**	-	-	-	-	.59	.28	-	-
Rape seed	.75	.22	.74	1.55	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	2.86	.85	2.07	4.32	**	**	**	**	.38	.18	.20	.80
Fenugreek	.08	.02	**	**	-	-	-	-	.04	.02	-	-
Spices	.77	.23	**	**	**	**	**	**	-	-	-	-
Potatoes	.67	.20	.47	.98	-	-	-	-	.08	.04	**	**
Other Vegetables	1.34	.40	.97	2.03	-	-	**	**	.26	.12	**	**
ALL TEMPORARY	310.84	92.41	22.37	46.71	45.20	100.00	5.13	100.00	213.12	100.00	25.04	99.96
Chat	.89	.26	**	**	-	-	-	-	-	-	-	-
Coffee	.03	.01	**	**	-	-	-	-	.01	-	-	-
Enset	24.26	7.21	**	**	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.10	.03	.10	.21	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	.26	.08	.26	.54	-	-	-	-	-	-	-	-
TOTAL PERMANENT	25.54	7.59	**	**	-	-	-	-	.01	-	**	**
ALL CROPS	336.38	100.00	47.89	100.00	45.20	100.00	5.13	100.00	213.13	100.00	25.05	100.00

TABLE 2.6.6

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

North Shewa(Oromia) Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	103.37	95.75	6.57	65.63	5.14	99.23	1.97	98.99	87.11	98.83	2.58	98.10
Teff	53.73	49.77	1.04	10.39	**	**	**	**	48.39	54.90	1.19	45.25
Barely	6.11	5.66	2.31	23.08	**	**	-	-	3.03	3.44	**	**
Wheat	41.42	38.37	**	**	**	**	1.22	61.31	35.40	40.16	1.03	39.16
Maize	1.72	1.59	1.55	15.48	-	-	-	-	.07	.08	**	**
Sorghum	.31	.29	**	**	-	-	**	**	.16	.18	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	.08	.07	**	**	-	-	-	-	.06	.07	**	**
PULSES	3.61	3.34	**	**	**	**	-	-	.56	.64	-	-
Horse Beans	2.93	2.71	2.67	26.67	-	-	-	-	.26	.29	-	-
Field Peas	.34	.31	**	**	-	-	-	-	.17	.19	-	-
Haricot Beans	.03	.03	**	**	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	.25	.23	**	**	**	**	-	-	.11	.12	-	-
Vetch	.06	.06	**	**	-	-	-	-	.02	.02	-	-
OILSEEDS	.25	.23	.08	.80	-	-	.02	1.01	.11	.12	**	**
Neug	.10	.09	**	**	-	-	-	-	.06	.07	-	-
Lin Seed	.05	.05	**	**	-	-	-	-	-	-	**	**
Rape seed	.05	.05	**	**	-	-	-	-	.02	.02	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.05	.05	-	-	-	-	**	**	.03	.03	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.56	.52	.17	1.70	-	-	-	-	.36	.41	**	**
Fenugreek	.29	.27	-	-	-	-	-	-	.29	.33	-	-
Spices	.06	.06	**	**	-	-	-	-	-	-	-	-
Potatoes	.01	.01	-	-	-	-	-	-	.01	.01	-	-
Other Vegetables	.20	.19	.12	1.20	-	-	-	-	.06	.07	**	**
ALL TEMPORARY	107.79	99.84	9.84	98.30	5.18	100.00	1.99	100.00	88.14	100.00	2.63	100.00
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	.01	.01	**	**	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.02	.02	**	**	-	-	-	-	-	-	-	-
Fruits	.01	.01	**	**	-	-	-	-	-	-	-	-
Other Permanent	.13	.12	.13	1.30	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.17	.16	.17	1.70	-	-	-	-	-	-	-	-
ALL CROPS	107.96	100.00	10.01	100.00	5.18	100.00	1.99	100.00	88.14	100.00	2.63	100.00

TABLE 2.6.7

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

East Shewa Zone

( '000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	175.57	89.00	7.16	66.60	30.17	74.15	5.86	89.06	130.30	95.39	2.07	78.11
Teff	84.15	42.66	**	**	12.83	31.53	**	**	69.23	50.68	**	**
Barely	6.61	3.35	**	**	2.31	5.68	.41	6.23	3.58	2.62	**	**
Wheat	56.38	28.58	**	**	5.10	12.53	1.29	19.60	49.42	36.18	**	**
Maize	27.78	14.08	6.66	61.95	9.77	24.01	**	**	7.76	5.68	**	**
Sorghum	.39	.20	**	**	**	**	**	**	.08	.06	-	-
Millet	.14	.07	**	**	**	**	-	-	.11	.08	-	-
Oats	.12	.06	-	-	-	-	-	-	.12	.09	-	-
PULSES	12.11	6.14	1.51	14.05	8.02	19.71	**	**	1.93	1.41	**	**
Horse Beans	1.87	.95	**	**	**	**	**	**	.45	.33	-	-
Field Peas	2.34	1.19	**	**	**	**	-	-	.39	.29	-	-
Haricot Beans	6.61	3.35	1.13	10.51	4.57	11.23	**	**	.41	.30	**	**
Chick Peas	.44	.22	-	-	.09	.22	**	**	.22	.16	-	-
Lentils	.77	.39	-	-	**	**	-	-	.46	.34	-	-
Vetch	.08	.04	-	-	**	**	-	-	-	-	-	-
OILSEEDS	.04	.02	**	**	**	**	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	.03	.02	**	**	**	**	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	.01	.01	-	-	**	**	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	8.49	4.30	1.00	9.30	2.47	6.07	**	**	4.37	3.20	**	**
Fenugreek	.19	.10	-	-	**	**	-	-	.12	.09	-	-
Spices	.09	.05	**	**	**	**	-	-	.07	.05	-	-
Potatoes	4.85	2.46	**	**	**	**	**	**	2.40	1.76	**	**
Other Vegetables	3.36	1.70	.76	7.07	**	**	**	**	1.78	1.30	**	**
ALL TEMPORARY	196.21	99.46	9.69	90.14	40.68	99.98	6.58	100.00	136.60	100.00	2.65	100.00
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	.96	.49	**	**	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.04	.02	**	**	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	.07	.04	.06	.56	**	**	-	-	-	-	-	-
TOTAL PERMANENT	1.07	.54	**	**	**	**	-	-	-	-	-	-
ALL CROPS	197.28	100.00	10.75	100.00	40.69	100.00	6.58	100.00	136.60	100.00	2.65	100.00

TABLE 2.6.8

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Arsi Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	410.99	87.69	24.03	70.26	322.25	88.89	8.01	88.02	53.99	92.85	2.72	57.63
Teff	59.41	12.68	.74	2.16	41.41	11.42	2.00	21.98	15.11	25.98	**	**
Barely	128.82	27.49	1.96	5.73	120.53	33.25	2.77	30.44	2.78	4.78	**	**
Wheat	177.78	37.93	1.62	4.74	137.63	37.97	2.64	29.01	34.69	59.66	1.20	25.42
Maize	36.45	7.78	14.93	43.65	19.15	5.28	**	**	1.25	2.15	**	**
Sorghum	6.15	1.31	**	**	**	**	**	**	.16	.28	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	2.38	.51	**	**	**	**	-	-	-	-	-	-
PULSES	41.10	8.77	3.16	9.24	32.00	8.83	.74	8.13	3.64	6.26	**	**
Horse Beans	26.98	5.76	3.14	9.18	19.31	5.33	.73	8.02	2.62	4.51	**	**
Field Peas	12.26	2.62	-	-	10.91	3.01	-	-	1.00	1.72	**	**
Haricot Beans	.87	.19	**	**	**	**	**	**	.02	.03	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	.99	.21	-	-	**	**	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	6.25	1.33	**	**	6.09	1.68	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	2.16	.46	-	-	2.16	.60	-	-	-	-	**	**
Rape seed	4.08	.87	**	**	**	**	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	.01	-	-	-	**	**	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	5.18	1.11	1.81	5.29	2.16	.60	**	**	.52	.89	**	**
Fenugreek	.18	.04	**	**	**	**	-	-	.04	.07	-	-
Spices	.34	.07	**	**	**	**	**	**	.06	.10	-	-
Potatoes	2.13	.45	.38	1.11	1.48	.41	-	-	.06	.10	**	**
Other Vegetables	2.53	.54	1.32	3.86	**	**	**	**	.36	.62	**	**
ALL TEMPORARY	463.52	98.90	29.09	85.06	362.50	100.00	9.10	100.00	58.15	100.00	4.69	99.36
Chat	.15	.03	**	**	-	-	-	-	-	-	-	-
Coffee	.71	.15	**	**	-	-	-	-	-	-	**	**
Enset	3.61	.77	**	**	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.09	.02	**	**	-	-	-	-	-	-	-	-
Fruits	.05	.01	**	**	-	-	-	-	-	-	-	-
Other Permanent	.54	.12	**	**	**	**	-	-	-	-	**	**
TOTAL PERMANENT	5.15	1.10	5.11	14.94	**	**	-	-	-	-	**	**
ALL CROPS	468.67	100.00	34.20	100.00	362.51	100.00	9.10	100.00	58.15	100.00	4.72	100.00

TABLE 2.6.9

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

West Harerge Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	26.59	70.34	15.03	63.90	2.58	81.90	1.16	77.33	6.61	81.91	1.22	78.21
Teff	4.12	10.90	**	**	**	**	**	**	2.03	25.15	**	**
Barely	.24	.63	.24	1.02	-	-	-	-	-	-	-	-
Wheat	.51	1.35	**	**	**	**	-	-	.29	3.59	-	-
Maize	14.92	39.47	7.59	32.27	1.63	51.75	.97	64.67	3.78	46.84	.96	61.54
Sorghum	6.75	17.86	6.02	25.60	**	**	**	**	.50	6.20	-	-
Millet	.05	.13	**	**	-	-	-	-	.01	.12	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	1.20	3.17	.86	3.66	**	**	**	**	.23	2.85	**	**
Horse Beans	.41	1.08	**	**	-	-	-	-	-	-	-	-
Field Peas	.01	.03	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.42	1.11	.38	1.62	-	-	**	**	.03	.37	-	-
Chick Peas	.34	.90	.04	.17	**	**	-	-	.20	2.48	**	**
Lentils	.02	.05	**	**	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.02	.05	**	**	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	.02	.05	**	**	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	1.68	4.44	1.47	6.25	**	**	**	**	.07	.87	-	-
Fenugreek	.10	.26	**	**	-	-	-	-	-	-	-	-
Spices	.20	.53	**	**	**	**	-	-	-	-	-	-
Potatoes	.03	.08	**	**	-	-	-	-	-	-	-	-
Other Vegetables	1.35	3.57	1.15	4.89	**	**	**	**	.07	.87	-	-
ALL TEMPORARY	29.49	78.02	17.38	73.89	2.74	86.98	1.20	80.00	6.91	85.63	1.28	82.05
Chat	4.29	11.35	3.28	13.95	.10	3.17	.18	12.00	.63	7.81	**	**
Coffee	3.41	9.02	2.44	10.37	.31	9.84	**	**	.35	4.34	**	**
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.11	.29	.11	.47	-	-	-	-	-	-	-	-
Fruits	.12	.32	**	**	-	-	-	-	-	-	-	-
Other Permanent	.38	1.01	.19	.81	-	-	-	-	.18	2.23	-	-
TOTAL PERMANENT	8.31	21.98	6.14	26.11	.41	13.02	.30	20.00	1.16	14.37	**	**
ALL CROPS	37.80	100.00	23.52	100.00	3.15	100.00	1.50	100.00	8.07	100.00	1.56	100.00

TABLE 2.6.10

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

East Harerge Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	69.32	72.16	26.81	64.79	2.52	73.47	9.04	76.09	21.55	83.85	9.42	68.91
Teff	1.95	2.03	.27	.65	**	**	**	**	.90	3.50	**	**
Barely	1.04	1.08	.72	1.74	-	-	**	**	.29	1.13	**	**
Wheat	7.80	8.12	.66	1.59	**	**	**	**	5.24	20.39	.30	2.19
Maize	26.86	27.96	11.73	28.35	.39	11.37	**	**	8.70	33.85	2.66	19.46
Sorghum	31.10	32.38	13.40	32.38	1.25	36.44	4.16	35.02	5.87	22.84	6.42	46.96
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	.57	.59	**	**	-	-	-	-	.55	2.14	-	-
PULSES	2.90	3.02	1.71	4.13	**	**	.43	3.62	.34	1.32	**	**
Horse Beans	.54	.56	**	**	-	-	-	-	-	-	-	-
Field Peas	.06	.06	**	**	-	-	-	-	-	-	-	-
Haricot Beans	2.26	2.35	1.09	2.63	**	**	.43	3.62	.34	1.32	**	**
Chick Peas	.04	.04	.02	.05	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	1.64	1.71	**	**	**	**	**	**	.37	1.44	**	**
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	.09	.09	-	-	-	-	-	-	.09	.35	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	1.51	1.57	**	**	**	**	**	**	.28	1.09	**	**
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	.04	.04	-	-	-	-	**	**	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	8.04	8.37	3.95	9.55	.24	7.00	1.05	8.84	1.85	7.20	.92	6.73
Fenugreek	.06	.06	.06	.14	-	-	-	-	-	-	-	-
Spices	.03	.03	.03	.07	-	-	-	-	-	-	-	-
Potatoes	3.30	3.44	.79	1.91	**	**	.58	4.88	1.46	5.68	.42	3.07
Other Vegetables	4.65	4.84	3.07	7.42	.21	6.12	.47	3.96	.39	1.52	.50	3.66
ALL TEMPORARY	81.90	85.26	33.38	80.67	3.00	87.46	10.62	89.39	24.11	93.81	10.77	78.79
Chat	12.63	13.15	6.53	15.78	.39	11.37	1.24	10.44	1.59	6.19	2.90	21.21
Coffee	1.05	1.09	**	**	-	-	**	**	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.16	.17	.16	.39	-	-	-	-	-	-	-	-
Fruits	.10	.10	**	**	-	-	-	-	-	-	-	-
Other Permanent	.22	.23	**	**	**	**	-	-	-	-	-	-
TOTAL PERMANENT	14.16	14.74	8.00	19.33	.43	12.54	1.26	10.61	1.59	6.19	2.90	21.21
ALL CROPS	96.06	100.00	41.38	100.00	3.43	100.00	11.88	100.00	25.70	100.00	13.67	100.00



TABLE 2.6.11

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Bale Zone

( '000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	122.75	95.59	1.27	21.90	107.13	98.96	2.12	99.07	12.20	100.00	**	**
Teff	4.97	3.87	-	-	4.26	3.93	**	**	.09	.74	-	-
Barely	31.14	24.25	.64	11.03	28.44	26.27	.65	30.37	1.42	11.64	-	-
Wheat	75.66	58.92	-	-	65.26	60.28	.74	34.58	9.61	78.77	**	**
Maize	1.51	1.18	**	**	1.20	1.11	**	**	.03	.25	-	-
Sorghum	.51	.40	**	**	**	**	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	8.96	6.98	**	**	7.79	7.20	**	**	1.05	8.61	-	-
PULSES	.63	.49	**	**	.60	.55	-	-	-	-	-	-
Horse Beans	.22	.17	**	**	**	**	-	-	-	-	-	-
Field Peas	.06	.05	-	-	**	**	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	.06	.05	**	**	**	**	-	-	-	-	-	-
Vetch	.29	.23	-	-	**	**	-	-	-	-	-	-
OILSEEDS	.09	.07	-	-	**	**	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	.08	.06	-	-	**	**	-	-	-	-	-	-
Rape seed	.01	.01	-	-	**	**	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.64	.50	.19	3.28	.44	.41	**	**	-	-	-	-
Fenugreek	.20	.16	**	**	**	**	**	**	-	-	-	-
Spices	.22	.17	-	-	**	**	-	-	-	-	-	-
Potatoes	.01	.01	-	-	**	**	-	-	-	-	-	-
Other Vegetables	.21	.16	.13	2.24	**	**	-	-	-	-	-	-
ALL TEMPORARY	124.11	96.65	1.50	25.86	108.26	100.00	2.14	100.00	12.20	100.00	**	**
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	.04	.03	**	**	-	-	-	-	-	-	-	-
Enset	4.26	3.32	4.26	73.45	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	4.30	3.35	4.30	74.14	-	-	-	-	-	-	-	-
ALL CROPS	128.41	100.00	5.80	100.00	108.26	100.00	2.14	100.00	12.20	100.00	**	**

TABLE 2.6.12

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Borena Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	8.26	43.82	**	**	**	**	.07	70.00	1.14	90.48	-	-
Teff	.25	1.33	-	-	**	**	**	**	.17	13.49	-	-
Barely	5.30	28.12	**	**	**	**	-	-	-	-	-	-
Wheat	.01	.05	**	**	-	-	-	-	-	-	-	-
Maize	2.69	14.27	**	**	**	**	.06	60.00	.97	76.98	-	-
Sorghum	.01	.05	**	**	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.28	1.49	**	**	**	**	-	-	-	-	-	-
Horse Beans	.13	.69	**	**	-	-	-	-	-	-	-	-
Field Peas	.13	.69	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.02	.11	**	**	**	**	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.01	.05	**	**	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	.01	.05	**	**	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	1.47	7.80	1.26	7.50	**	**	**	**	.06	4.76	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.02	.11	**	**	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	1.45	7.69	1.24	7.38	**	**	**	**	.06	4.76	-	-
ALL TEMPORARY	10.02	53.16	**	**	**	**	.08	80.00	1.20	95.24	-	-
Chat	.01	.05	**	**	-	-	-	-	-	-	-	-
Coffee	1.73	9.18	**	**	**	**	-	-	-	-	-	-
Enset	6.64	35.23	6.60	39.29	**	**	-	-	-	-	-	-
Cotton	.01	.05	**	**	-	-	-	-	-	-	-	-
Tobacco	.07	.37	**	**	-	-	-	-	-	-	-	-
Fruits	.37	1.96	**	**	**	**	.02	20.00	.06	4.76	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	8.83	46.84	8.59	51.13	**	**	.02	20.00	.06	4.76	-	-
ALL CROPS	18.85	100.00	16.80	100.00	**	**	.10	100.00	1.26	100.00	-	-

TABLE 2.7

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Sonale

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	2.07	72.13	**	**	-	-	-	-	.03	100.00	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barely	.04	1.39	**	**	-	-	-	-	-	-	-	-
Wheat	.06	2.09	**	**	-	-	-	-	-	-	-	-
Maize	1.47	51.22	**	**	-	-	-	-	-	-	-	-
Sorghum	.50	17.42	.47	16.55	-	-	-	-	.03	100.00	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.03	1.05	**	**	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.03	1.05	**	**	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.10	3.48	**	**	-	-	**	**	-	-	-	-
Fenugreek	.01	.35	**	**	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.09	3.14	**	**	-	-	**	**	-	-	-	-
ALL TEMPORARY	2.20	76.66	**	**	-	-	**	**	.03	100.00	-	-
Chat	.66	23.00	**	**	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.01	.35	**	**	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.67	23.34	**	**	-	-	-	-	-	-	-	-
ALL CROPS	2.87	100.00	**	**	-	-	**	**	.03	100.00	-	-

TABLE 2.7.1

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Shinele Zone

( '000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	.11	84.62	.10	83.33	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.02	15.38	.02	16.67	-	-	-	-	-	-	-	-
Sorghum	.09	69.23	.08	66.67	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.01	7.69	**	**	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.01	7.69	**	**	-	-	-	-	-	-	-	-
ALL TEMPORARY	.12	92.31	.11	91.67	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobaco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.01	7.69	**	**	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.01	7.69	**	**	-	-	-	-	-	-	-	-
ALL CROPS	.13	100.00	.12	100.00	-	-	-	-	-	-	-	-

TABLE 2.7.2

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Jijiga Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	1.96	71.53	**	**	-	-	-	-	.02	100.00	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barely	.04	1.46	**	**	-	-	-	-	-	-	-	-
Wheat	.06	2.19	**	**	-	-	-	-	-	-	-	-
Maize	1.45	52.92	**	**	-	-	-	-	-	-	-	-
Sorghum	.41	14.96	.39	14.34	-	-	-	-	.02	100.00	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.03	1.09	.03	1.10	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.03	1.09	.03	1.10	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.09	3.28	**	**	-	-	-	-	-	-	-	-
Fenugreek	.01	.36	**	**	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.08	2.92	**	**	-	-	-	-	-	-	-	-
ALL TEMPORARY	2.08	75.91	**	**	-	-	-	-	.02	100.00	-	-
Chat	.66	24.09	**	**	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.66	24.09	**	**	-	-	-	-	-	-	-	-
ALL CROPS	2.74	100.00	**	**	-	-	-	-	.02	100.00	-	-

TABLE 2.7.3

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Moyale Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	.01	50.00	.01	100.00	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.01	50.00	.01	100.00	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.01	50.00	-	-	-	-	.01	100.00	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.01	50.00	-	-	-	-	.01	100.00	-	-	-	-
ALL TEMPORARY	.02	100.00	.01	100.00	-	-	.01	100.00	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.02	100.00	.01	100.00	-	-	.01	100.00	-	-	-	-

TABLE 2.8

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Benshangul-Gumuz

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	16.88	85.69	6.98	75.38	6.55	95.34	.37	72.55	2.62	96.32	**	**
Teff	5.27	26.75	**	**	3.92	57.06	**	**	.66	24.26	**	**
Barely	1.14	5.79	**	**	**	**	-	-	.30	11.03	-	-
Wheat	.58	2.94	**	**	**	**	-	-	.03	1.10	-	-
Maize	7.94	40.30	5.72	61.77	**	**	.10	19.61	1.54	56.62	**	**
Sorghum	.57	2.89	**	**	**	**	-	-	.09	3.31	-	-
Millet	1.35	6.85	**	**	**	**	**	**	-	-	-	-
Oats	.03	.15	**	**	-	-	-	-	-	-	-	-
PULSES	.67	3.40	.52	5.62	**	**	-	-	-	-	-	-
Horse Beans	.37	1.88	.29	3.13	**	**	-	-	-	-	-	-
Field Peas	.18	.91	**	**	**	**	-	-	-	-	-	-
Haricot Beans	.04	.20	**	**	-	-	-	-	-	-	-	-
Chick Peas	.06	.30	**	**	-	-	-	-	-	-	-	-
Lentils	.02	.10	**	**	**	**	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.88	4.47	.87	9.40	-	-	-	-	-	-	-	-
Neug	.63	3.20	**	**	-	-	-	-	-	-	-	-
Lin Seed	.03	.15	**	**	-	-	-	-	-	-	-	-
Rape seed	.02	.10	**	**	-	-	-	-	-	-	-	-
Ground Nuts	.03	.15	**	**	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	.17	.86	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	1.01	5.13	.63	6.80	**	**	.14	27.45	.10	3.68	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.49	2.49	.25	2.70	**	**	.14	27.45	.06	2.21	-	-
Potatoes	.29	1.47	**	**	**	**	-	-	-	-	-	-
Other Vegetables	.23	1.17	**	**	**	**	-	-	.04	1.47	-	-
ALL TEMPORARY	19.44	98.68	9.00	97.19	6.87	100.00	.51	100.00	2.72	100.00	**	**
Chat	.01	.05	.01	.11	-	-	-	-	-	-	-	-
Coffee	.17	.86	**	**	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.02	.10	**	**	-	-	-	-	-	-	-	-
Fruits	.04	.20	.04	.43	-	-	-	-	-	-	-	-
Other Permanent	.02	.10	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.26	1.32	.26	2.81	-	-	-	-	-	-	-	-
ALL CROPS	19.70	100.00	9.26	100.00	6.87	100.00	.51	100.00	2.72	100.00	**	**

TABLE 2.8.1

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Metekel Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	11.41	86.77	3.41	70.31	5.72	95.65	.11	84.62	1.84	97.87	**	**
Teff	4.31	32.78	**	**	**	**	-	-	.63	33.51	**	**
Barely	1.14	8.67	**	**	**	**	-	-	.30	15.96	-	-
Wheat	.58	4.41	**	**	**	**	-	-	.03	1.60	-	-
Maize	3.63	27.60	2.26	46.60	**	**	**	**	.82	43.62	**	**
Sorghum	.38	2.89	**	**	-	-	-	-	.06	3.19	-	-
Millet	1.34	10.19	**	**	**	**	**	**	-	-	-	-
Oats	.03	.23	**	**	-	-	-	-	-	-	-	-
PULSES	.61	4.64	.46	9.48	**	**	-	-	-	-	-	-
Horse Beans	.37	2.81	.29	5.98	**	**	-	-	-	-	-	-
Field Peas	.18	1.37	**	**	**	**	-	-	-	-	-	-
Haricot Beans	.03	.23	**	**	-	-	-	-	-	-	-	-
Chick Peas	.01	.08	**	**	-	-	-	-	-	-	-	-
Lentils	.02	.15	**	**	**	**	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.40	3.04	**	**	-	-	-	-	-	-	-	-
Neug	.26	1.98	**	**	-	-	-	-	-	-	-	-
Lin Seed	.02	.15	**	**	-	-	-	-	-	-	-	-
Rape seed	.02	.15	**	**	-	-	-	-	-	-	-	-
Ground Nuts	.03	.23	**	**	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	.07	.53	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.56	4.26	.41	8.45	**	**	**	**	.04	2.13	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.15	1.14	.13	2.68	-	-	**	**	-	-	-	-
Potatoes	.28	2.13	**	**	**	**	-	-	-	-	-	-
Other Vegetables	.13	.99	.09	1.86	-	-	-	-	.04	2.13	-	-
ALL TEMPORARY	12.98	98.71	4.68	96.49	5.98	100.00	.13	100.00	1.88	100.00	**	**
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	.13	.99	**	**	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.01	.08	**	**	-	-	-	-	-	-	-	-
Fruits	.02	.15	.02	.41	-	-	-	-	-	-	-	-
Other Permanent	.01	.08	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.17	1.29	**	**	-	-	-	-	-	-	-	-
ALL CROPS	13.15	100.00	4.85	100.00	5.98	100.00	.13	100.00	1.88	100.00	**	**



TABLE 2.8.2

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Asosa Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	2.61	81.56	.91	71.09	.82	94.25	.26	70.27	.61	91.04	-	-
Teff	.95	29.69	-	-	.72	82.76	**	**	.03	4.48	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	1.47	45.94	.82	64.06	**	**	**	**	.54	80.60	-	-
Sorghum	.19	5.94	**	**	**	**	-	-	.04	5.97	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.20	6.25	**	**	-	-	-	-	-	-	-	-
Neug	.09	2.81	**	**	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	.11	3.44	**	**	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.31	9.69	.09	7.03	**	**	**	**	.06	8.96	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.27	8.44	.05	3.91	**	**	**	**	.06	8.96	-	-
Potatoes	.01	.31	**	**	-	-	-	-	-	-	-	-
Other Vegetables	.03	.94	.03	2.34	-	-	-	-	-	-	-	-
ALL TEMPORARY	3.12	97.50	1.20	93.75	.87	100.00	.37	100.00	.67	100.00	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	.04	1.25	.04	3.13	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.01	.31	**	**	-	-	-	-	-	-	-	-
Fruits	.02	.63	.02	1.56	-	-	-	-	-	-	-	-
Other Permanent	.01	.31	.01	.78	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.08	2.50	.08	6.25	-	-	-	-	-	-	-	-
ALL CROPS	3.20	100.00	1.28	100.00	.87	100.00	.37	100.00	.67	100.00	-	-

TABLE 2.8.3

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Kemeshi Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	2.85	85.33	**	**	.01	100.00	-	-	.18	100.00	**	**
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	2.84	85.03	**	**	.01	100.00	-	-	.18	100.00	**	**
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	.01	.30	**	**	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.06	1.80	**	**	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.01	.30	**	**	-	-	-	-	-	-	-	-
Chick Peas	.05	1.50	**	**	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.29	8.68	**	**	-	-	-	-	-	-	-	-
Neug	.29	8.68	**	**	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.14	4.19	**	**	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.07	2.10	**	**	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.07	2.10	**	**	-	-	-	-	-	-	-	-
ALL TEMPORARY	3.34	100.00	**	**	.01	100.00	-	-	.18	100.00	**	**
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	3.34	100.00	**	**	.01	100.00	-	-	.18	100.00	**	**

TABLE 2.9

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

(S.N.N.P.R)

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	284.87	52.73	42.19	16.75	128.91	82.08	12.52	71.50	95.61	91.14	5.65	62.43
Teff	80.58	14.91	1.81	.72	51.51	32.80	5.60	31.98	20.91	19.93	.76	8.40
Barely	23.33	4.32	5.51	2.19	12.18	7.75	**	**	4.59	4.38	.26	2.87
Wheat	55.20	10.22	**	**	29.70	18.91	1.13	6.45	21.54	20.53	**	**
Maize	112.06	20.74	24.30	9.65	33.13	21.09	4.20	23.99	46.88	44.69	3.55	39.23
Sorghum	11.34	2.10	8.69	3.45	1.38	.88	**	**	.56	.53	**	**
Millet	2.33	.43	**	**	.99	.63	.17	.97	1.12	1.07	**	**
Oats	.03	.01	-	-	**	**	-	-	.01	.01	-	-
PULSES	33.30	6.16	9.13	3.63	18.42	11.73	1.74	9.94	3.33	3.17	.71	7.85
Horse Beans	11.19	2.07	2.62	1.04	7.10	4.52	.14	.80	1.17	1.12	.17	1.88
Field Peas	5.50	1.02	.56	.22	4.69	2.99	.04	.23	.21	.20	**	**
Haricot Beans	15.58	2.88	5.59	2.22	6.11	3.89	**	**	1.80	1.72	**	**
Chick Peas	.61	.11	**	**	**	**	-	-	.05	.05	-	-
Lentils	.42	.08	**	**	**	**	**	**	.10	.10	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.49	.09	.08	.03	.12	.08	.01	.06	.27	.26	**	**
Neug	.25	.05	-	-	-	-	-	-	.25	.24	-	-
Lin Seed	.11	.02	-	-	**	**	.01	.06	.02	.02	-	-
Rape seed	.13	.02	.08	.03	**	**	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	45.17	8.36	32.98	13.10	6.34	4.04	1.34	7.65	4.23	4.03	.27	2.98
Fenugreek	.15	.03	.03	.01	**	**	-	-	.06	.06	-	-
Spices	8.53	1.58	1.70	.68	3.52	2.24	.74	4.23	2.49	2.37	**	**
Potatoes	8.80	1.63	5.89	2.34	1.51	.96	.12	.69	1.24	1.18	.05	.55
Other Vegetables	27.69	5.13	25.36	10.07	1.26	.80	**	**	.44	.42	.15	1.66
ALL TEMPORARY	363.83	67.34	84.38	33.51	153.79	97.92	15.61	89.15	103.44	98.61	6.64	73.37
Chat	9.05	1.68	7.68	3.05	.54	.34	**	**	.26	.25	**	**
Coffee	29.09	5.38	24.60	9.77	1.84	1.17	1.13	6.45	.86	.82	.67	7.40
Enset	130.92	24.23	128.73	51.12	.43	.27	**	**	.18	.17	**	**
Cotton	.46	.09	.45	.18	-	-	-	-	-	-	-	-
Tobacco	.65	.12	.51	.20	**	**	**	**	.05	.05	**	**
Fruits	2.58	.48	2.18	.87	.25	.16	**	**	.04	.04	**	**
Other Permanent	3.71	.69	3.28	1.30	.14	.09	**	**	.07	.07	**	**
TOTAL PERMANENT	176.46	32.66	167.43	66.49	3.27	2.08	1.90	10.85	1.46	1.39	**	**
ALL CROPS	540.29	100.00	251.81	100.00	157.06	100.00	17.51	100.00	104.90	100.00	9.05	100.00

TABLE 2.9.1

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Gurage Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	82.33	64.91	6.89	16.08	42.27	87.53	4.42	90.76	26.88	93.79	**	**
Teff	25.61	20.19	**	**	16.06	33.26	**	**	6.94	24.21	**	**
Barely	13.86	10.93	.45	1.05	9.38	19.42	**	**	3.13	10.92	**	**
Wheat	13.74	10.83	**	**	8.70	18.02	**	**	4.03	14.06	**	**
Maize	28.37	22.37	6.04	14.10	7.94	16.44	.78	16.02	12.58	43.89	**	**
Sorghum	.75	.59	**	**	**	**	.35	7.19	.20	.70	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	7.12	5.61	1.61	3.76	4.67	9.67	.11	2.26	.60	2.09	.11	5.12
Horse Beans	4.04	3.19	1.35	3.15	1.98	4.10	.08	1.64	.52	1.81	**	**
Field Peas	2.61	2.06	**	**	2.46	5.09	**	**	.07	.24	**	**
Haricot Beans	.08	.06	**	**	**	**	-	-	.01	.03	-	-
Chick Peas	.19	.15	**	**	-	-	-	-	-	-	-	-
Lentils	.20	.16	-	-	**	**	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.32	.25	**	**	**	**	-	-	.25	.87	-	-
Neug	.25	.20	-	-	-	-	-	-	.25	.87	-	-
Lin Seed	.05	.04	-	-	**	**	-	-	-	-	-	-
Rape seed	.02	.02	**	**	**	**	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	4.46	3.52	1.95	4.55	1.13	2.34	.34	6.98	.93	3.24	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	1.90	1.50	**	**	.66	1.37	.27	5.54	.75	2.62	**	**
Potatoes	1.02	.80	.31	.72	.45	.93	**	**	.18	.63	**	**
Other Vegetables	1.54	1.21	1.48	3.45	.02	.04	**	**	-	-	.03	1.40
ALL TEMPORARY	94.23	74.30	10.46	24.42	48.12	99.65	4.87	100.00	28.66	100.00	**	**
Chat	3.68	2.90	3.63	8.47	**	**	-	-	-	-	**	**
Coffee	2.56	2.02	2.40	5.60	**	**	-	-	-	-	-	-
Enset	25.21	19.88	25.20	58.82	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.26	.20	.26	.61	-	-	-	-	-	-	-	-
Other Permanent	.89	.70	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	32.60	25.70	32.38	75.58	**	**	-	-	-	-	.04	1.86
ALL CROPS	126.83	100.00	42.84	100.00	48.29	100.00	4.87	100.00	28.66	100.00	2.15	100.00

TABLE 2.9.2

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Hadiya Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	66.59	68.41	5.33	18.90	28.74	82.23	2.28	95.40	29.13	95.41	1.15	86.47
Teff	19.92	20.46	**	**	8.05	23.03	**	**	10.58	34.65	**	**
Barely	2.89	2.97	**	**	1.84	5.26	**	**	.97	3.18	**	**
Wheat	27.52	28.27	**	**	14.99	42.89	.54	22.59	11.74	38.45	**	**
Maize	14.43	14.82	4.51	15.99	3.26	9.33	**	**	5.36	17.56	**	**
Sorghum	1.41	1.45	.63	2.23	.42	1.20	**	**	.31	1.02	**	**
Millet	.40	.41	**	**	**	**	**	**	.17	.56	**	**
Oats	.02	.02	-	-	**	**	-	-	-	-	-	-
PULSES	6.46	6.64	.44	1.56	5.08	14.54	-	-	.88	2.88	**	**
Horse Beans	4.02	4.13	.17	.60	3.28	9.38	-	-	.50	1.64	**	**
Field Peas	1.66	1.71	**	**	1.58	4.52	-	-	.05	.16	-	-
Haricot Beans	.53	.54	.22	.78	.10	.29	-	-	.21	.69	-	-
Chick Peas	.08	.08	**	**	**	**	-	-	.02	.07	-	-
Lentils	.17	.17	-	-	**	**	-	-	.10	.33	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.07	.07	-	-	**	**	-	-	.02	.07	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	.03	.03	-	-	**	**	-	-	.02	.07	-	-
Rape seed	.04	.04	-	-	**	**	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	5.03	5.17	3.57	12.66	.98	2.80	.05	2.09	.39	1.28	.06	4.51
Fenugreek	.01	.01	**	**	-	-	-	-	-	-	-	-
Spices	.39	.40	.12	.43	**	**	**	**	.03	.10	**	**
Potatoes	1.19	1.22	.23	.82	.58	1.66	**	**	.35	1.15	**	**
Other Vegetables	3.44	3.53	3.21	11.38	.18	.52	**	**	.01	.03	.03	2.26
ALL TEMPORARY	78.15	80.29	9.34	33.12	34.84	99.69	2.33	97.49	30.42	99.64	1.27	95.49
Chat	1.09	1.12	1.04	3.69	**	**	-	-	.02	.07	**	**
Coffee	2.31	2.37	2.14	7.59	**	**	**	**	.08	.26	**	**
Enset	15.03	15.44	14.96	53.05	**	**	**	**	.01	.03	**	**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.24	.25	.22	.78	**	**	-	-	-	-	-	-
Fruits	.18	.18	.17	.60	**	**	-	-	-	-	-	-
Other Permanent	.34	.35	.33	1.17	-	-	-	-	-	-	**	**
TOTAL PERMANENT	19.19	19.71	18.86	66.88	.11	.31	**	**	.11	.36	.06	4.51
ALL CROPS	97.34	100.00	28.20	100.00	34.95	100.00	2.39	100.00	30.53	100.00	1.33	100.00

TABLE 2.9.3

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Kembata Alaba Tembaro Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	44.14	62.89	3.75	18.66	22.35	79.48	1.80	74.38	15.00	82.74	1.24	87.32
Teff	13.63	19.42	.13	.65	10.02	35.63	.38	15.70	2.92	16.11	**	**
Barely	.91	1.30	**	**	.51	1.81	**	**	.35	1.93	-	-
Wheat	9.75	13.89	**	**	4.49	15.97	**	**	4.72	26.03	**	**
Maize	17.02	24.25	3.12	15.52	6.08	21.62	1.03	42.56	5.99	33.04	.79	55.63
Sorghum	.91	1.30	**	**	.42	1.49	**	**	.06	.33	-	-
Millet	1.91	2.72	**	**	.83	2.95	.12	4.96	.95	5.24	-	-
Oats	.01	.01	-	-	-	-	-	-	.01	.06	-	-
PULSES	3.71	5.29	.88	4.38	2.34	8.32	**	**	.38	2.10	**	**
Horse Beans	2.41	3.43	.45	2.24	1.76	6.26	**	**	.14	.77	-	-
Field Peas	.34	.48	**	**	**	**	-	-	.09	.50	-	-
Haricot Beans	.84	1.20	.32	1.59	.34	1.21	**	**	.13	.72	**	**
Chick Peas	.09	.13	**	**	**	**	-	-	.02	.11	-	-
Lentils	.03	.04	-	-	**	**	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.07	.10	**	**	**	**	.01	.41	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	.02	.03	-	-	**	**	.01	.41	-	-	-	-
Rape seed	.05	.07	**	**	**	**	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	11.16	15.90	4.91	24.43	3.05	10.85	.51	21.07	2.63	14.51	.06	4.23
Fenugreek	.14	.20	**	**	**	**	-	-	.06	.33	-	-
Spices	5.70	8.12	.89	4.43	2.64	9.39	**	**	1.71	9.43	**	**
Potatoes	1.29	1.84	.35	1.74	.21	.75	**	**	.69	3.81	**	**
Other Vegetables	4.03	5.74	3.65	18.16	.15	.53	**	**	.17	.94	.04	2.82
ALL TEMPORARY	59.08	84.17	9.58	47.66	27.76	98.72	2.40	99.17	18.01	99.34	1.33	93.66
Chat	.81	1.15	.77	3.83	**	**	-	-	.01	.06	**	**
Coffee	2.76	3.93	2.49	12.39	.19	.68	-	-	.03	.17	**	**
Enset	6.73	9.59	6.66	33.13	**	**	-	-	.01	.06	**	**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.25	.36	.14	.70	**	**	**	**	.05	.28	-	-
Fruits	.21	.30	.18	.90	**	**	-	-	.02	.11	-	-
Other Permanent	.35	.50	.28	1.39	**	**	**	**	-	-	-	-
TOTAL PERMANENT	11.11	15.83	10.52	52.34	.36	1.28	**	**	.12	.66	**	**
ALL CROPS	70.19	100.00	20.10	100.00	28.12	100.00	2.42	100.00	18.13	100.00	1.42	100.00

TABLE 2.9.4

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Sidama Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	14.66	17.95	1.67	2.97	8.84	61.73	.55	21.07	3.40	57.43	**	**
Teff	.65	.80	**	**	.50	3.49	-	-	.08	1.35	-	-
Barely	.12	.15	**	**	**	**	-	-	-	-	-	-
Wheat	.15	.18	-	-	**	**	**	**	-	-	-	-
Maize	13.69	16.76	1.52	2.70	8.12	56.70	.54	20.69	3.32	56.08	**	**
Sorghum	.05	.06	-	-	**	**	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	4.69	5.74	.30	.53	2.76	19.27	**	**	1.22	20.61	**	**
Horse Beans	.03	.04	**	**	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	4.66	5.71	.27	.48	2.76	19.27	**	**	1.22	20.61	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.01	.01	**	**	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	.01	.01	**	**	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	3.50	4.29	3.00	5.33	.22	1.54	**	**	.12	2.03	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	.04	.05	.01	.02	-	-	-	-	.02	.34	-	-
Other Vegetables	3.46	4.24	2.99	5.31	.22	1.54	**	**	.10	1.69	**	**
ALL TEMPORARY	22.86	27.99	4.98	8.85	11.82	82.54	.89	34.10	4.74	80.07	**	**
Chat	3.31	4.05	2.10	3.73	.49	3.42	**	**	.23	3.89	**	**
Coffee	11.59	14.19	7.96	14.14	1.37	9.57	1.02	39.08	.71	11.99	**	**
Enset	41.05	50.27	39.07	69.42	.35	2.44	**	**	.15	2.53	**	**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	.03	.04	**	**	-	-	-	-	-	-	-	-
Fruits	1.35	1.65	1.01	1.79	.21	1.47	**	**	.02	.34	**	**
Other Permanent	1.47	1.80	1.13	2.01	.08	.56	**	**	.07	1.18	**	**
TOTAL PERMANENT	58.80	72.01	51.30	91.15	2.50	17.46	1.72	65.90	1.18	19.93	**	**
ALL CROPS	81.66	100.00	56.28	100.00	14.32	100.00	2.61	100.00	5.92	100.00	2.52	100.00

TABLE 2.9.5

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Gedio Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	1.96	28.45	**	**	**	**	.07	41.18	.71	92.21	-	-
Teff	.05	.73	**	**	**	**	-	-	-	-	-	-
Barely	.88	12.77	**	**	**	**	**	**	.13	16.88	-	-
Wheat	.10	1.45	-	-	**	**	-	-	.08	10.39	-	-
Maize	.93	13.50	.15	2.72	**	**	**	**	.50	64.94	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.24	3.48	**	**	-	-	-	-	-	-	-	-
Horse Beans	.18	2.61	**	**	-	-	-	-	-	-	-	-
Field Peas	.01	.15	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.05	.73	**	**	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.01	.15	**	**	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	.01	.15	**	**	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.96	13.93	.78	14.16	**	**	**	**	.05	6.49	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.01	.15	**	**	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.95	13.79	.77	13.97	**	**	**	**	.05	6.49	-	-
ALL TEMPORARY	3.17	46.01	1.90	34.48	**	**	**	**	.76	98.70	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	1.39	20.17	1.31	23.77	**	**	**	**	.01	1.30	-	-
Enset	2.20	31.93	2.18	39.56	**	**	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.08	1.16	**	**	**	**	-	-	-	-	-	-
Other Permanent	.05	.73	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	3.72	53.99	3.61	65.52	**	**	**	**	.01	1.30	**	**
ALL CROPS	6.89	100.00	5.51	100.00	.43	100.00	**	**	.77	100.00	**	**



TABLE 2.9.6

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

North Omo Zone

('000 HA,

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	57.01	45.78	17.38	22.21	18.15	80.88	1.74	52.41	18.76	98.17	.99	70.71
Teff	14.35	11.52	1.17	1.49	11.78	52.50	1.32	39.76	-	-	**	**
Barely	4.33	3.48	**	**	**	**	-	-	-	-	-	-
Wheat	2.15	1.73	**	**	**	**	-	-	.61	3.19	.03	2.14
Maize	33.29	26.73	8.01	10.23	5.91	26.34	**	**	18.15	94.98	**	**
Sorghum	2.89	2.32	**	**	**	**	**	**	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	10.21	8.20	5.10	6.52	3.34	14.88	**	**	.22	1.15	**	**
Horse Beans	.23	.18	**	**	-	-	-	-	-	-	-	-
Field Peas	.63	.51	**	**	**	**	-	-	-	-	-	-
Haricot Beans	9.10	7.31	4.51	5.76	2.82	12.57	**	**	.22	1.15	**	**
Chick Peas	.25	.20	**	**	**	**	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	18.25	14.66	16.97	21.68	**	**	**	**	.11	.58	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.51	.41	**	**	-	-	-	-	-	-	-	-
Potatoes	4.57	3.67	4.29	5.48	**	**	**	**	-	-	-	-
Other Vegetables	13.17	10.58	12.17	15.55	**	**	**	**	.11	.58	**	**
ALL TEMPORARY	85.47	68.63	39.45	50.40	22.41	99.87	3.23	97.29	19.09	99.90	1.30	92.86
Chat	.04	.03	**	**	-	-	**	**	-	-	-	-
Coffee	7.06	5.67	6.89	8.80	**	**	**	**	.02	.10	**	**
Enset	30.83	24.76	30.80	39.35	**	**	-	-	-	-	**	**
Cotton	.21	.17	**	**	-	-	-	-	-	-	-	-
Tobacco	.11	.09	**	**	-	-	-	-	-	-	-	-
Fruits	.32	.26	.32	.41	-	-	-	-	-	-	-	-
Other Permanent	.49	.39	.48	.61	-	-	**	**	-	-	-	-
TOTAL PERMANENT	39.06	31.37	38.82	49.60	**	**	**	**	.02	.10	**	**
ALL CROPS	124.53	100.00	78.27	100.00	22.44	100.00	3.32	100.00	19.11	100.00	1.40	100.00

TABLE 2.9.7

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

South Omo Zone

( '000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	.96	37.07	**	**	**	**	.05	71.43	.51	96.23	**	**
Teff	.01	.39	-	-	-	-	-	-	.01	1.89	-	-
Barely	.07	2.70	-	-	-	-	-	-	-	-	**	**
Wheat	.18	6.95	-	-	-	-	-	-	.18	33.96	-	-
Maize	.59	22.78	**	**	**	**	.05	71.43	.32	60.38	**	**
Sorghum	.10	3.86	**	**	-	-	-	-	-	-	**	**
Millet	.01	.39	**	**	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.09	3.47	**	**	**	**	.02	28.57	.02	3.77	**	**
Horse Beans	.03	1.16	**	**	**	**	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.06	2.32	-	-	-	-	.02	28.57	.02	3.77	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.03	1.16	.03	1.79	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.03	1.16	.03	1.79	-	-	-	-	-	-	-	-
ALL TEMPORARY	1.08	41.70	.17	10.12	**	**	.07	100.00	.53	100.00	**	**
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	.11	4.25	**	**	-	-	-	-	-	-	-	-
Enset	1.38	53.28	**	**	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.01	.39	**	**	-	-	-	-	-	-	-	-
Other Permanent	.01	.39	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	1.51	58.30	**	**	-	-	-	-	-	-	-	-
ALL CROPS	2.59	100.00	1.68	100.00	**	**	.07	100.00	.53	100.00	**	**

TABLE 2.9.8

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Keficho-Shekicho Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	5.16	55.78	**	**	3.87	98.72	.99	99.00	.05	100.00	-	-
Teff	2.15	23.24	-	-	1.72	43.88	.37	37.00	.05	100.00	-	-
Barely	.10	1.08	**	**	**	**	-	-	-	-	-	-
Wheat	1.15	12.43	**	**	1.04	26.53	**	**	-	-	-	-
Maize	1.50	16.22	**	**	.88	22.45	**	**	-	-	-	-
Sorghum	.26	2.81	**	**	**	**	**	**	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.10	1.08	**	**	**	**	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	.05	.54	**	**	-	-	-	-	-	-	-	-
Haricot Beans	.05	.54	-	-	**	**	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.12	1.30	.12	2.82	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.12	1.30	.12	2.82	-	-	-	-	-	-	-	-
ALL TEMPORARY	5.38	58.16	.40	9.39	3.92	100.00	.99	99.00	.05	100.00	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	.06	.65	**	**	-	-	-	-	-	-	-	-
Enset	3.74	40.43	3.74	87.79	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.06	.65	**	**	-	-	**	**	-	-	-	-
Other Permanent	.01	.11	.01	.23	-	-	-	-	-	-	-	-
TOTAL PERMANENT	3.87	41.84	3.86	90.61	-	-	**	**	-	-	-	-
ALL CROPS	9.25	100.00	4.26	100.00	3.92	100.00	1.00	100.00	.05	100.00	-	-

TABLE 2.9.9

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Bench-Maji Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	1.17	33.43	.02	.86	.64	98.46	.13	92.86	.36	97.30	**	**
Teff	.18	5.14	-	-	**	**	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	.03	.86	-	-	-	-	-	-	.03	8.11	-	-
Maize	.95	27.14	.02	.86	.45	69.23	.13	92.86	.33	89.19	**	**
Sorghum	.01	.29	-	-	**	**	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.01	.29	-	-	**	**	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.01	.29	-	-	**	**	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.53	15.14	.52	22.41	-	-	**	**	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.53	15.14	.52	22.41	-	-	**	**	-	-	-	-
ALL TEMPORARY	1.71	48.86	.54	23.28	.65	100.00	.14	100.00	.36	97.30	**	**
Chat	.04	1.14	**	**	-	-	-	-	-	-	-	-
Coffee	.39	11.14	.38	16.38	-	-	-	-	.01	2.70	-	-
Enset	1.25	35.71	1.25	53.88	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.08	2.29	**	**	-	-	-	-	-	-	-	-
Other Permanent	.03	.86	**	**	-	-	-	-	-	-	-	-
TOTAL PERMANENT	1.79	51.14	1.78	76.72	-	-	-	-	.01	2.70	-	-
ALL CROPS	3.50	100.00	2.32	100.00	.65	100.00	.14	100.00	.37	100.00	**	**

TABLE 2.9.10

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Yem Special Wereda Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	4.71	72.69	.18	10.17	3.51	95.38	.35	97.22	.66	100.00	**	**
Teff	3.61	55.71	**	**	3.07	83.42	.27	75.00	.24	36.36	**	**
Barely	.13	2.01	-	-	.11	2.99	**	**	-	-	-	-
Wheat	.39	6.02	**	**	**	**	.03	8.33	.12	18.18	-	-
Maize	.56	8.64	.12	6.78	.12	3.26	**	**	.30	45.45	-	-
Sorghum	.02	.31	**	**	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.44	6.79	**	**	**	**	**	**	-	-	-	-
Horse Beans	.24	3.70	.18	10.17	**	**	**	**	-	-	-	-
Field Peas	.18	2.78	.08	4.52	**	**	**	**	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	.02	.31	.01	.56	**	**	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.01	.15	-	-	**	**	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	.01	.15	-	-	**	**	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.09	1.39	.09	5.08	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	.01	.15	.01	.56	-	-	-	-	-	-	-	-
Other Vegetables	.08	1.23	.08	4.52	-	-	-	-	-	-	-	-
ALL TEMPORARY	5.25	81.02	.54	30.51	3.68	100.00	.36	100.00	.66	100.00	**	**
Chat	.02	.31	.02	1.13	-	-	-	-	-	-	-	-
Coffee	.03	.46	.03	1.69	-	-	-	-	-	-	-	-
Enset	1.18	18.21	1.18	66.67	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	1.23	18.98	1.23	69.49	-	-	-	-	-	-	-	-
ALL CROPS	6.48	100.00	1.77	100.00	3.68	100.00	.36	100.00	.66	100.00	**	**

TABLE 2.9.11

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Amaro Special Wereda Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	.27	8.77	.02	.71	.07	100.00	**	**	.14	100.00	**	**
Teff	.14	4.55	-	-	**	**	-	-	.09	64.29	-	-
Barely	.01	.32	**	**	-	-	-	-	-	-	-	-
Wheat	.04	1.30	-	-	-	-	**	**	.02	14.29	-	-
Maize	.07	2.27	-	-	**	**	-	-	.03	21.43	**	**
Sorghum	.01	.32	**	**	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.03	.97	.03	1.06	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	.01	.32	.01	.35	-	-	-	-	-	-	-	-
Haricot Beans	.02	.65	.02	.71	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.09	2.92	.09	3.19	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.09	2.92	.09	3.19	-	-	-	-	-	-	-	-
ALL TEMPORARY	.39	12.66	.14	4.96	.07	100.00	**	**	.14	100.00	**	**
Chat	.04	1.30	**	**	-	-	-	-	-	-	-	-
Coffee	.57	18.51	.56	19.86	-	-	-	-	-	-	-	-
Enset	2.02	65.58	2.02	71.63	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.01	.32	.01	.35	-	-	-	-	-	-	-	-
Other Permanent	.05	1.62	.05	1.77	-	-	-	-	-	-	-	-
TOTAL PERMANENT	2.69	87.34	2.68	95.04	-	-	-	-	-	-	-	-
ALL CROPS	3.08	100.00	2.82	100.00	.07	100.00	**	**	.14	100.00	**	**

TABLE 2.9.12

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Burji Special Wereda Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	.20	39.22	.15	32.61	.04	100.00	.01	100.00	-	-	-	-
Teff	.03	5.88	**	**	**	**	.01	100.00	-	-	-	-
Barely	.02	3.92	.02	4.35	-	-	-	-	-	-	-	-
Wheat	.01	1.96	.01	2.17	-	-	-	-	-	-	-	-
Maize	.09	17.65	**	**	**	**	-	-	-	-	-	-
Sorghum	.05	9.80	**	**	**	**	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.03	5.88	.03	6.52	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.03	5.88	.03	6.52	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.02	3.92	.02	4.35	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.02	3.92	.02	4.35	-	-	-	-	-	-	-	-
ALL TEMPORARY	.25	49.02	.20	43.48	.04	100.00	.01	100.00	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	.03	5.88	.03	6.52	-	-	-	-	-	-	-	-
Enset	.23	45.10	.23	50.00	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.26	50.98	.26	56.52	-	-	-	-	-	-	-	-
ALL CROPS	.51	100.00	.46	100.00	.04	100.00	.01	100.00	-	-	-	-

TABLE 2.9.13

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Konso Special Wereda Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	5.57	78.12	5.43	78.02	.03	100.00	.11	84.62	-	-	**	**
Teff	.24	3.37	**	**	**	**	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.54	7.57	.52	7.47	-	-	**	**	-	-	-	-
Sorghum	4.79	67.18	4.69	67.39	**	**	**	**	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.14	1.96	.12	1.72	-	-	**	**	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.14	1.96	.12	1.72	-	-	**	**	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.90	12.62	**	**	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	.01	.14	**	**	-	-	-	-	-	-	-	-
Potatoes	.68	9.54	**	**	-	-	-	-	-	-	-	-
Other Vegetables	.21	2.95	.20	2.87	-	-	-	-	-	-	-	-
ALL TEMPORARY	6.61	92.71	6.44	92.53	.03	100.00	.13	100.00	-	-	**	**
Chat	.02	.28	.02	.29	-	-	-	-	-	-	-	-
Coffee	.22	3.09	.22	3.16	-	-	-	-	-	-	-	-
Enset	.01	.14	.01	.14	-	-	-	-	-	-	-	-
Cotton	.24	3.37	.24	3.45	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.02	.28	**	**	-	-	-	-	-	-	-	-
Other Permanent	.01	.14	.01	.14	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.52	7.29	.52	7.47	-	-	-	-	-	-	-	-
ALL CROPS	7.13	100.00	6.96	100.00	.03	100.00	.13	100.00	-	-	**	**



TABLE 2.9.14

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Derashe Special Wereda Zone

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	.14	63.64	**	**	-	-	-	-	-	-	-	-
Teff	.01	4.55	-	-	-	-	-	-	-	-	-	-
Barely	.02	9.09	**	**	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.02	9.09	.02	9.52	-	-	-	-	-	-	-	-
Sorghum	.09	40.91	**	**	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.01	4.55	**	**	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.01	4.55	**	**	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.01	4.55	.01	4.76	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.01	4.55	**	**	-	-	-	-	-	-	-	-
ALL TEMPORARY	.16	72.73	**	**	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	.01	4.55	.01	4.76	-	-	-	-	-	-	-	-
Enset	.05	22.73	.05	23.81	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.06	27.27	.06	28.57	-	-	-	-	-	-	-	-
ALL CROPS	.22	100.00	.21	100.00	-	-	-	-	-	-	-	-

TABLE 2.10

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Gambela

( '000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	.08	100.00	-	-	.04	100.00	.02	100.00	.02	100.00	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.08	100.00	-	-	.04	100.00	.02	100.00	.02	100.00	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	.08	100.00	-	-	.04	100.00	.02	100.00	.02	100.00	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.08	100.00	-	-	.04	100.00	.02	100.00	.02	100.00	-	-

TABLE 2.11

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Harari

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	3.89	66.50	1.12	65.50	.09	60.00	.93	68.89	.82	67.21	.89	66.42
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barely	.03	.51	-	-	**	**	-	-	.01	.82	-	-
Wheat	.18	3.08	-	-	**	**	**	**	.09	7.38	.04	2.99
Maize	1.10	18.80	.33	19.30	.02	13.33	.24	17.78	.19	15.57	.31	23.13
Sorghum	2.57	43.93	.79	46.20	.05	33.33	.65	48.15	.53	43.44	.54	40.30
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	.01	.17	-	-	-	-	-	-	-	-	-	-
PULSES	.01	.17	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.01	.17	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.32	5.47	.23	13.45	**	**	.05	3.70	.01	.82	.01	.75
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	.32	5.47	.23	13.45	**	**	.05	3.70	.01	.82	.01	.75
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.13	2.22	.04	2.34	**	**	.02	1.48	.02	1.64	.03	2.24
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	.03	.51	-	-	**	**	-	-	-	-	**	**
Other Vegetables	.10	1.71	.04	2.34	-	-	.02	1.48	.02	1.64	.02	1.49
ALL TEMPORARY	4.35	74.36	1.39	81.29	.12	80.00	1.00	74.07	.85	69.67	.93	69.40
Chat	1.47	25.13	.30	17.54	.03	20.00	.35	25.93	.37	30.33	.41	30.60
Coffee	.01	.17	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.02	.34	.02	1.17	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	1.50	25.64	.32	18.71	.03	20.00	.35	25.93	.37	30.33	.41	30.60
ALL CROPS	5.85	100.00	1.71	100.00	.15	100.00	1.35	100.00	1.22	100.00	1.34	100.00

TABLE 2.12

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Addis Ababa

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	6.13	89.62	.03	75.00	.19	32.20	.04	100.00	5.80	95.24	.06	100.00
Teff	3.47	50.73	-	-	.07	11.86	.02	50.00	3.33	54.68	**	**
Barely	.07	1.02	**	**	**	**	-	-	.01	.16	-	-
Wheat	2.59	37.87	.02	50.00	.07	11.86	.02	50.00	2.46	40.39	.03	50.00
Maize	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.57	8.33	.01	25.00	**	**	-	-	.22	3.61	-	-
Horse Beans	.01	.15	.01	25.00	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	.25	3.65	-	-	**	**	-	-	.10	1.64	-	-
Lentils	.04	.58	-	-	.02	3.39	-	-	.02	.33	-	-
Vetch	.27	3.95	-	-	**	**	-	-	.10	1.64	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.14	2.05	-	-	**	**	-	-	.07	1.15	-	-
Fenugreek	.03	.44	-	-	**	**	-	-	.01	.16	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.11	1.61	-	-	**	**	-	-	.06	.99	-	-
ALL TEMPORARY	6.84	100.00	.04	100.00	.59	100.00	.04	100.00	6.09	100.00	.06	100.00
Chat	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	6.84	100.00	.04	100.00	.59	100.00	.04	100.00	6.09	100.00	.06	100.00

TABLE 2.13

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER FOR  
MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Dire Dawa

('000 HA)

TYPE OF CROP	TOTAL		NATURAL		DAP		UREA		DAP+UREA		NAT+COMM	
	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
CEREALS	1.26	81.29	1.11	79.86	.02	100.00	.08	80.00	.03	100.00	**	**
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	.09	5.81	.07	5.04	-	-	.01	10.00	-	-	-	-
Sorghum	1.17	75.48	1.04	74.82	.02	100.00	.07	70.00	.03	100.00	**	**
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	.04	2.58	.04	2.88	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.04	2.58	.04	2.88	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	.04	2.58	.04	2.88	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.04	2.58	.04	2.88	-	-	-	-	-	-	-	-
ALL TEMPORARY	1.34	86.45	1.19	85.61	.02	100.00	.08	80.00	.03	100.00	**	**
Chat	.13	8.39	.12	8.63	-	-	**	**	-	-	-	-
Coffee	.01	.65	**	**	-	-	-	-	-	-	-	-
Enset	.01	.65	**	**	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	.06	3.87	**	**	-	-	-	-	-	-	**	**
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.21	13.55	.20	14.39	-	-	**	**	-	-	**	**
ALL CROPS	1.55	100.00	1.39	100.00	.02	100.00	.10	100.00	.03	100.00	**	**



### **3. QUANTITY OF CHEMICAL FERTILIZERS APPLIED BY TYPE**

As indicated in Summary Table C, the total quantity of fertilizers applied by the private peasant holders at national level was 4.33 million quintals. It is important to note that the information on fertilizer quantity was collected and estimated for chemical fertilizers only.

**Summary Table C   Quantity of Chemical Fertilizers Applied by Type**

Fertilizer type	Quantity ('000qt)	Percent
DAP	330.05	7.62
UREA	49.23	1.14
DAP+UREA	433.19	10.00
Natural+Chemical	3517.20	81.24
Total	4329.64	100.00

#### **3.1 Quantity of DAP Applied**

Out of the total quantity of chemical fertilizer applied the quantity of DAP was 330.05 thousand quintals (7.62%). The total quantity of DAP applied on temporary and permanent crops was about 327.54 thousand and 2.51 thousand quintals, respectively. See the details in Table 3.1

#### **3.2 Quantity of UREA Applied**

Of the total quantity of chemical fertilizer applied, the quantity of UREA was 49.23 thousand quintals (1.14%) (Summary Table C). The total quantity of UREA applied on temporary and permanent crops was about 47.64 thousand and 1.59 thousand quintals, respectively.

### **3.3 Quantity of DAP and UREA Applied in mix**

Out of the total quantity of chemical fertilizers applied, the quantity of the mixture of DAP and UREA was 433.19 thousand quintals (10.00%). The quantity of the mixture of DAP and UREA applied to temporary and permanent crops was about 430.09 thousand and 3.10 thousand quintals, respectively.

### **3.4 Quantity of Chemical and Natural Fertilizers Applied in Mix**

As observed from the survey results, application of a mixture of chemical and Natural fertilizers is also practiced by private peasant holders. Unlike the previous year the quantity of chemical and natural fertilizers applied in mix was large this year. It was estimated that about 3.52 million quintals of chemical fertilizer mixed with an unknown quantity of natural fertilizer was applied during 1999/2000 Meher season.



TABLE 3.1

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1999 E.C.)

National

('000 GT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	2,954.85	68.25	275.48	83.47	35.42	71.95	406.13	93.75	2,237.81	63.62
Teff	565.62	13.06	82.19	24.90	13.67	27.77	145.83	33.66	323.93	9.21
Barely	455.21	10.51	49.12	14.88	3.48	7.07	28.67	6.62	373.94	10.63
Wheat	344.27	7.95	55.64	16.86	4.35	8.84	99.77	23.03	184.50	5.25
Maize	1,060.69	24.50	63.66	19.29	9.13	18.55	103.97	24.00	883.93	25.13
Sorghum	376.86	8.70	4.39	1.33	2.98	6.05	7.97	1.84	361.52	10.28
Millet	130.48	3.01	18.18	5.51	**	**	19.03	4.39	91.47	2.60
Oats	21.72	.50	2.30	.70	**	**	**	**	18.52	.53
PULSES	534.54	12.35	36.47	11.05	4.76	9.67	10.03	2.32	483.27	13.74
Horse Beans	206.82	4.78	17.23	5.22	2.29	4.65	4.01	.93	183.29	5.21
Field Peas	86.94	2.01	8.76	2.65	**	**	2.01	.46	75.94	2.16
Haricot Beans	124.83	2.88	8.14	2.47	**	**	2.57	.59	112.21	3.19
Chick Peas	48.62	1.12	**	**	**	**	**	**	47.74	1.36
Lentils	41.38	.96	2.03	.62	**	**	.79	.18	38.35	1.09
Vetch	25.95	.60	**	**	-	-	**	**	25.74	.73
OILSEEDS	134.94	3.12	3.80	1.15	**	**	2.40	.55	128.37	3.65
Neug	59.10	1.37	**	**	**	**	**	**	57.96	1.65
Lin Seed	49.39	1.14	**	**	**	**	**	**	47.87	1.36
Rape seed	17.41	.40	1.74	.53	**	**	1.18	.27	14.46	.41
Ground Nuts	2.55	.06	**	**	**	**	**	**	2.46	.07
Sun Flower	.25	.01	**	**	.03	.06	.17	.04	**	**
Sesame	6.24	.14	**	**	**	**	**	**	5.59	.16
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	310.22	7.17	11.79	3.57	7.07	14.36	11.53	2.66	279.86	7.96
Fenugreek	18.15	.42	**	**	**	**	.94	.22	16.90	.48
Spices	88.59	2.05	3.44	1.04	3.19	6.48	6.31	1.46	75.65	2.15
Potatoes	79.97	1.85	5.15	1.56	**	**	2.15	.50	71.21	2.02
Other Vegetables	123.51	2.85	3.08	.93	2.20	4.47	2.13	.49	116.10	3.30
ALL TEMPORARY	3,934.55	90.87	327.54	99.24	47.64	96.77	430.09	99.28	3,129.31	88.97
Chat	63.94	1.48	.39	.12	.83	1.69	1.61	.37	61.10	1.74
Coffee	192.51	4.45	1.31	.40	.38	.77	.78	.18	190.05	5.40
Enset	67.14	1.55	**	**	**	**	**	**	66.45	1.89
Cotton	**	**	**	**	**	**	**	**	**	**
Tobacco	8.12	.19	**	**	-	-	-	-	8.05	.23
Fruits	23.60	.55	.17	.05	.04	.08	**	**	23.27	.66
Other Permanent	35.27	.81	.10	.03	**	**	**	**	34.93	.99
TOTAL PERMANENT	395.09	9.13	2.51	.76	1.59	3.23	3.10	.72	387.89	11.03
ALL CROPS	4,329.64	100.00	330.05	100.00	49.23	100.00	433.19	100.00	3,517.20	100.00

**FIG. 3 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED BY  
TYPE FOR MAJOR CROPS OF PRIVATE PEASANT HOLDINGS  
NATIONAL, 1999/2000(1992 E.C.)**

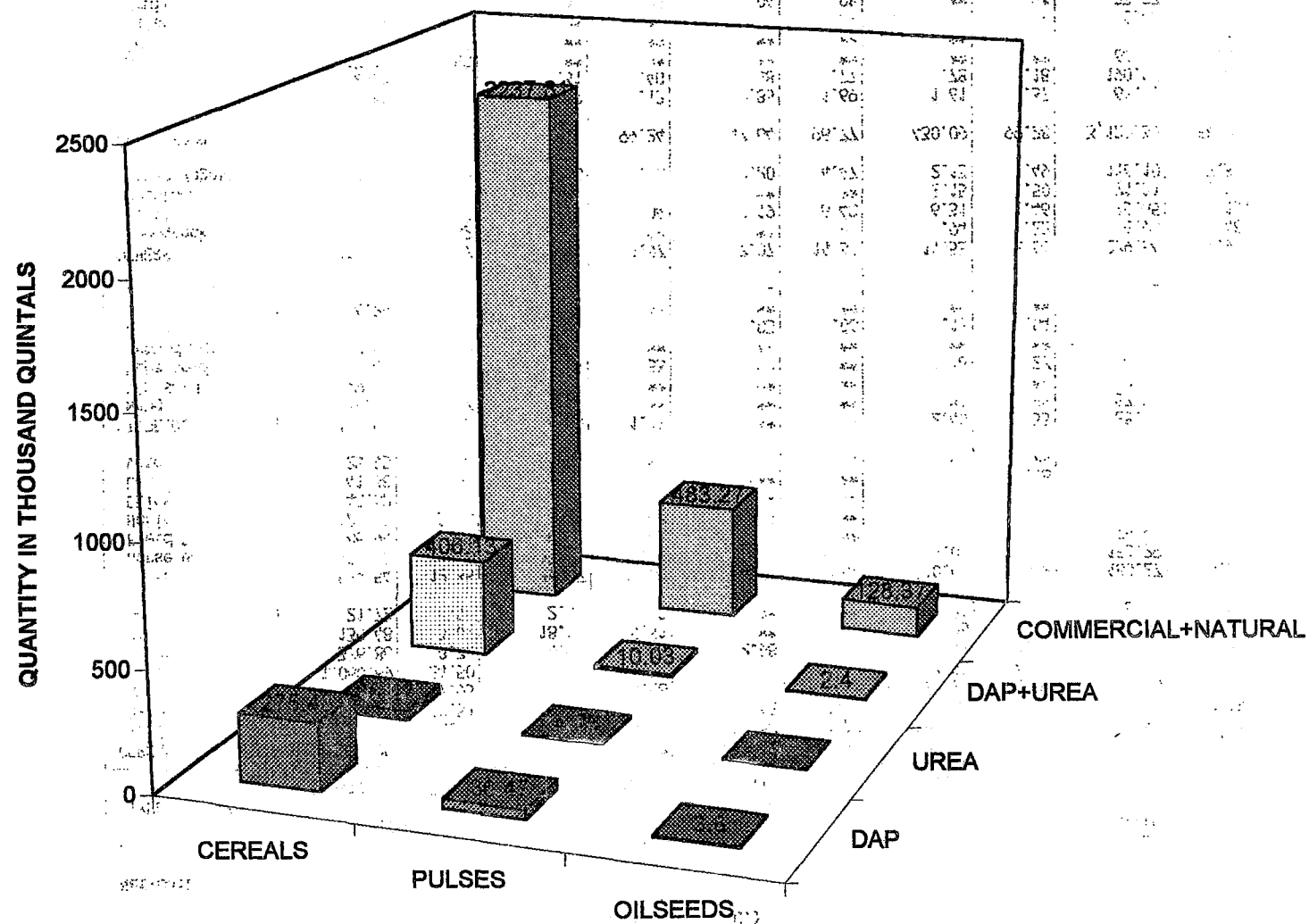


TABLE 3.2

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER APPLIED AREA BY REGION AND BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

(000'QT)

REGION	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
TIGRAY	364.95	8.43	2.89	.88	2.21	4.49	53.52	12.35	306.33	8.71
AFAR	4.76	.11	.01	-	.02	.04	-	-	4.72	.13
AMHARA	1,569.48	36.25	58.94	17.86	12.51	25.41	127.31	29.39	1,370.73	38.97
OROMIYA	1,668.70	38.54	187.00	56.66	19.50	39.61	191.40	44.18	1,270.80	36.13
SOMALIE	13.40	.31	-	-	-	-	.01	-	13.39	.38
BENSHANGUL-GUMUZ	36.83	.85	1.04	.32	.13	.26	.74	.17	34.92	.99
S.N.N.P.R.	663.40	15.32	79.91	24.21	14.30	29.05	58.53	13.51	510.66	14.52
GAMBELA	1.62	.04	.02	.01	-	-	-	-	1.60	.05
HARARI	2.87	.07	.06	.02	.55	1.12	.83	.19	1.43	.04
ADDIS ABABA	1.28	.03	.15	.05	.01	.02	.85	.20	.27	.01
DIRE DAWA	2.36	.05	-	-	.01	.02	.01	-	2.34	.07
TOTAL	4,329.66	100.00	330.03	100.00	49.23	100.00	433.20	100.00	3,517.19	100.00

**FIG. 4 ESTIMATES OF QUANTITY OF DAP AND UREA USED BY REGION,  
1999/2000(1992 E.C.)**

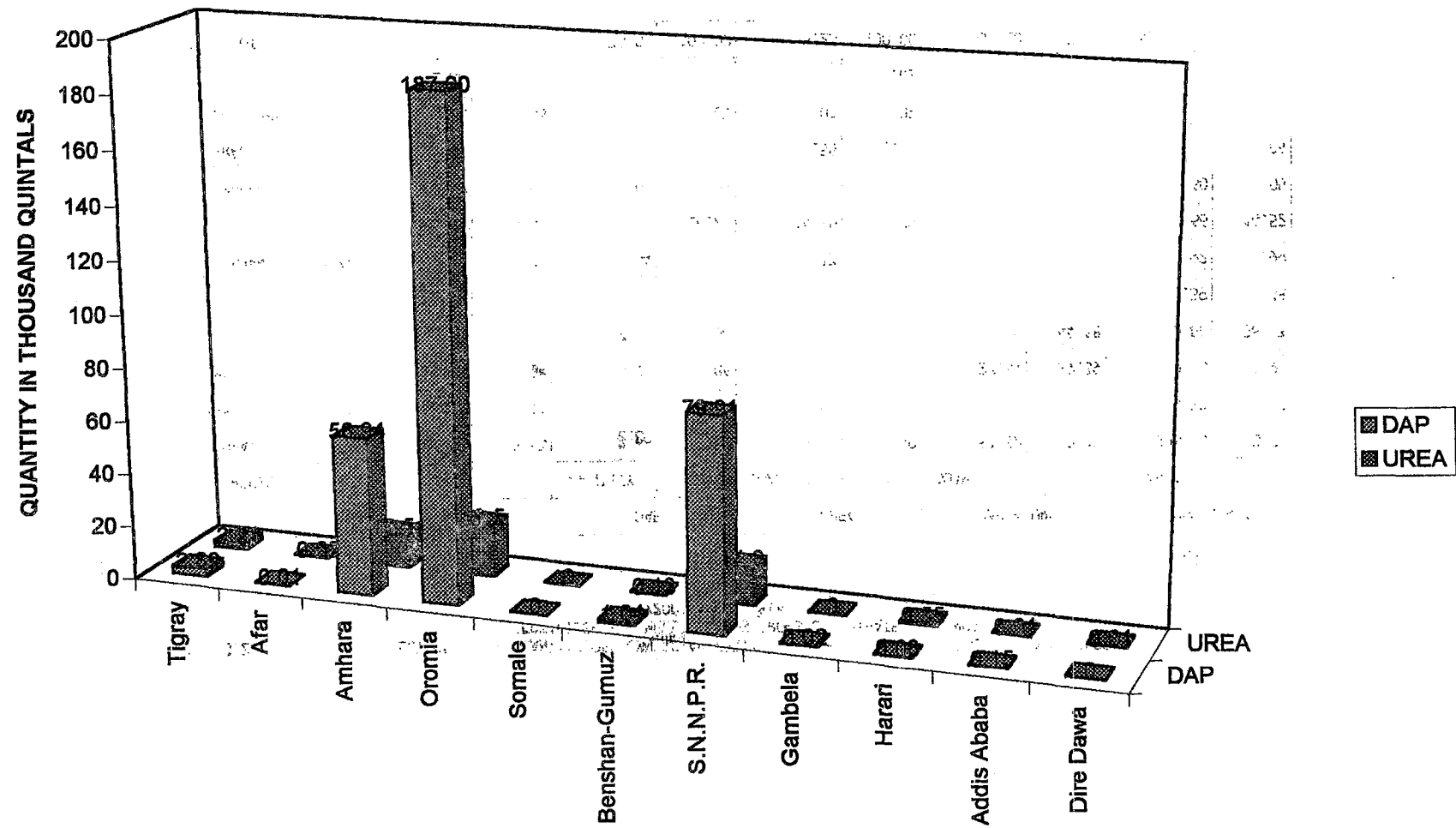


TABLE 3.3

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Tigray

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	298.36	81.75	2.26	77.93	2.07	94.09	52.31	97.78	241.72	78.90
Teff	45.51	12.47	**	**	**	**	17.26	32.26	27.51	8.98
Barely	63.38	17.37	.76	26.21	.79	35.91	10.55	19.72	51.29	16.74
Wheat	36.10	9.89	.68	23.45	.66	30.00	8.49	15.87	26.26	8.57
Maize	69.28	18.98	**	**	-	-	6.78	12.67	62.33	20.35
Sorghum	42.95	11.77	**	**	-	-	1.21	2.26	41.53	13.56
Millet	41.05	11.25	**	**	**	**	8.02	14.99	32.71	10.68
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	44.35	12.15	**	**	**	**	**	**	43.47	14.19
Horse Beans	18.21	4.99	**	**	**	**	**	**	17.87	5.83
Field Peas	7.72	2.12	-	-	-	-	**	**	7.47	2.44
Haricot Beans	6.76	1.85	-	-	-	-	-	-	6.76	2.21
Chick Peas	6.09	1.67	-	-	**	**	-	-	5.97	1.95
Lentils	3.87	1.06	**	**	-	-	-	-	3.83	1.25
Vetch	1.70	.47	-	-	-	-	**	**	1.57	.51
OILSEEDS	15.22	4.17	**	**	-	-	**	**	14.24	4.65
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	6.24	1.71	-	-	-	-	**	**	5.86	1.91
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	**	**	**	**
Sesame	**	**	**	**	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	3.47	.95	-	-	-	-	**	**	3.38	1.10
Fenugreek	.89	.24	-	-	-	-	-	-	.89	.29
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	**	.01	-	-	-	-	-	-	**	**
Other Vegetables	1.74	.48	-	-	-	-	**	**	1.65	.54
ALL TEMPORARY	361.40	99.03	2.90	100.00	2.20	100.00	53.50	100.00	302.81	98.84
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	364.95	100.00	2.90	100.00	2.20	100.00	53.50	100.00	306.35	100.00

TABLE 3.3.1

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

West Tigray Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	42.56	79.28	.48	45.28	.02	100.00	6.35	100.00	35.71	77.21
Teff	4.67	8.70	**	**	**	**	2.44	38.43	2.12	4.58
Barely	**	**	-	-	-	-	-	-	**	**
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	12.95	24.12	**	**	-	-	1.95	30.71	10.83	23.42
Sorghum	8.12	15.13	**	**	-	-	**	**	7.88	17.04
Millet	16.43	30.61	**	**	**	**	1.85	29.13	14.49	31.33
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	**	**	-	-	-	-	-	-	**	**
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	**	**	-	-	-	-	**	**
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	**	**	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	53.35	99.39	**	**	.02	100.00	6.35	100.00	45.92	99.29
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	53.68	100.00	**	**	.02	100.00	6.35	100.00	46.25	100.00

TABLE 3.3.2

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Central Tigray Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	152.54	81.15	.43	95.56	**	**	29.93	97.52	121.58	77.82
Teff	28.92	15.39	**	**	**	**	13.32	43.40	15.18	9.72
Barely	20.04	10.66	**	**	**	**	**	**	16.70	10.69
Wheat	4.98	2.65	**	**	**	**	1.41	4.59	3.48	2.23
Maize	43.63	23.21	-	-	-	-	**	**	38.84	24.86
Sorghum	30.98	16.48	**	**	-	-	**	**	29.80	19.07
Millet	23.99	12.76	-	-	**	**	6.17	20.10	17.58	11.25
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	22.29	11.86	**	**	-	-	**	**	21.90	14.02
Horse Beans	10.77	5.73	**	**	-	-	**	**	10.51	6.73
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	5.35	2.85	-	-	-	-	-	-	5.35	3.42
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	**	**	-	-	-	-	**	**	**	**
OILSEEDS	8.27	4.40	-	-	-	-	**	**	7.89	5.05
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	2.93	1.56	-	-	-	-	**	**	2.55	1.63
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	2.05	1.09	-	-	-	-	-	-	2.05	1.31
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	185.15	98.50	.45	100.00	**	**	30.69	100.00	153.42	98.20
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	187.97	100.00	.45	100.00	**	**	30.69	100.00	156.23	100.00

TABLE 3.3.3

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

East Tigray Zone

( '000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	46.44	83.45	.79	95.18	1.13	90.40	9.85	96.19	34.67	80.00
Teff	5.33	9.58	-	-	**	**	**	**	4.45	10.27
Barely	20.40	36.66	.40	48.19	**	**	4.37	42.68	15.23	35.14
Wheat	18.72	33.64	.39	46.99	**	**	4.79	46.78	13.00	30.00
Maize	**	**	-	-	-	-	-	-	**	**
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	**	**	-	-	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	6.37	11.45	**	**	**	**	**	**	5.91	13.64
Horse Beans	1.53	2.75	-	-	-	-	**	**	1.48	3.41
Field Peas	1.30	2.34	-	-	-	-	**	**	1.05	2.42
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	1.08	1.94	-	-	**	**	-	-	.96	2.22
Lentils	1.55	2.79	**	**	-	-	-	-	1.51	3.48
Vetch	.91	1.64	-	-	-	-	-	-	.91	2.10
OILSEEDS	2.18	3.92	-	-	-	-	-	-	2.18	5.03
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	2.18	3.92	-	-	-	-	-	-	2.18	5.03
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	**	**	**	**
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	**	**	-	-
ALL TEMPORARY	55.25	99.28	.83	100.00	1.25	100.00	10.24	100.00	42.94	99.08
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	55.65	100.00	.83	100.00	1.25	100.00	10.24	100.00	43.34	100.00



TABLE 3.3.4

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

South Tigray Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	56.83	84.01	.58	100.00	.32	96.97	6.17	99.52	49.78	82.21
Teff	6.59	9.74	**	**	**	**	.80	12.90	5.77	9.53
Barely	22.65	33.48	**	**	**	**	3.04	49.03	19.07	31.49
Wheat	12.30	18.18	**	**	**	**	2.29	36.94	9.69	16.00
Maize	11.89	17.58	-	-	-	-	**	**	11.85	19.57
Sorghum	3.31	4.89	**	**	-	-	-	-	3.31	5.47
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	8.94	13.22	-	-	**	**	**	**	8.91	14.72
Horse Beans	2.64	3.90	-	-	**	**	**	**	2.62	4.33
Field Peas	3.22	4.76	-	-	-	-	-	-	3.21	5.30
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	.59	.87	-	-	-	-	-	-	.59	.97
OILSEEDS	1.07	1.58	-	-	-	-	**	**	1.05	1.73
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	**	**	**	**
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	67.65	100.00	.58	100.00	.33	100.00	6.20	100.00	60.55	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-
ALL CROPS	67.65	100.00	.58	100.00	.33	100.00	6.20	100.00	60.55	100.00

TABLE 3.4

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Afar

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	3.80	79.66	**	**	-	-	-	-	3.79	79.96
Teff	.80	16.77	**	**	-	-	-	-	.79	16.67
Barely	**	**	-	-	-	-	-	-	**	**
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	1.64	34.38	-	-	-	-	-	-	1.64	34.60
Sorghum	1.33	27.88	-	-	-	-	-	-	1.33	28.06
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	**	**	-	-	**	**	-	-	**	**
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	**	**	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	4.54	95.18	.01	100.00	**	**	-	-	4.51	95.15
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	.23	4.82	-	-	-	-	-	-	.23	4.85
ALL CROPS	4.77	100.00	.01	100.00	**	**	-	-	4.74	100.00

TABLE 3.4.1

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Zone 1 (Afar) Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	.54	100.00	-	-	-	-	-	-	.54	100.00
Teff	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	.41	75.93	-	-	-	-	-	-	.41	75.93
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	.54	100.00	-	-	-	-	-	-	.54	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobaco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-
ALL CROPS	.54	100.00	-	-	-	-	-	-	.54	100.00

TABLE 3.4.2

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Zone 3 (Afar) Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	3.15	76.46	**	**	-	-	-	-	3.14	76.77
Teff	.80	19.42	**	**	-	-	-	-	.79	19.32
Barely	**	**	-	-	-	-	-	-	**	**
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	**	**	-	-	-	-	-	-	**	**
Sorghum	1.20	29.13	-	-	-	-	-	-	1.20	29.34
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	**	**	-	-	.02	100.00	-	-	**	**
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	.02	100.00	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	3.89	94.42	**	**	.02	100.00	-	-	3.86	94.38
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	.23	5.58	-	-	-	-	-	-	.23	5.62
ALL CROPS	4.12	100.00	.01	100.00	.02	100.00	-	-	4.09	100.00

TABLE 3.5

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Anhara

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	1,082.40	68.97	53.07	90.04	9.72	77.88	120.77	94.87	898.85	65.57
Teff	208.67	13.30	17.45	29.61	5.20	41.67	48.97	38.47	137.05	10.00
Barely	216.57	13.80	6.92	11.74	.81	6.49	4.16	3.27	204.68	14.93
Wheat	129.82	8.27	2.69	4.56	1.34	10.74	32.45	25.49	93.34	6.81
Maize	299.95	19.11	9.91	16.81	.72	5.77	23.85	18.74	265.48	19.37
Sorghum	152.22	9.70	**	**	**	**	**	**	150.19	10.96
Millet	64.39	4.10	16.07	27.27	**	**	9.32	7.32	37.69	2.75
Oats	10.78	.69	-	-	-	-	**	**	10.42	.76
PULSES	236.98	15.10	2.52	4.28	**	**	1.48	1.16	232.02	16.93
Horse Beans	90.45	5.76	**	**	**	**	**	**	87.54	6.39
Field Peas	37.05	2.36	**	**	-	-	-	-	36.36	2.65
Haricot Beans	40.64	2.59	**	.02	-	-	**	**	40.50	2.95
Chick Peas	30.98	1.97	**	**	-	-	**	**	30.54	2.23
Lentils	22.88	1.46	**	**	**	**	**	**	22.11	1.61
Vetch	14.98	.95	-	-	-	-	**	**	14.97	1.09
OILSEEDS	61.59	3.92	**	**	**	**	1.34	1.05	59.03	4.31
Neug	33.74	2.15	**	**	**	**	**	**	32.70	2.39
Lin Seed	22.07	1.41	**	**	-	-	**	**	22.04	1.61
Rape seed	3.80	.24	**	**	**	**	.83	.65	2.58	.19
Ground Nuts	**	**	-	-	-	-	-	-	**	**
Sun Flower	.20	.01	**	**	**	**	.13	.10	**	**
Sesame	**	**	-	-	-	-	**	**	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	136.06	8.67	**	**	1.55	12.42	**	**	128.87	9.40
Fenugreek	10.48	.67	-	-	-	-	**	**	9.99	.73
Spices	52.76	3.36	**	**	1.22	9.78	**	**	48.52	3.54
Potatoes	43.83	2.79	**	**	-	-	**	**	42.22	3.08
Other Vegetables	28.99	1.85	**	**	**	**	.19	.15	28.14	2.05
ALL TEMPORARY	1,517.03	96.66	58.94	100.00	12.30	98.56	127.01	99.77	1,318.77	96.21
Chat	5.55	.35	-	-	-	-	-	-	5.55	.40
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	2.26	.14	-	-	**	**	**	**	**	**
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	.61	.04	-	-	-	-	-	-	.61	.04
Other Permanent	17.00	1.08	-	-	**	**	-	-	16.98	1.24
TOTAL PERMANENT	52.45	3.34	-	-	**	**	**	**	51.96	3.79
ALL CROPS	1,569.48	100.00	58.94	100.00	12.48	100.00	127.30	100.00	1,370.73	100.00

TABLE 3.5.1

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

North Gonder Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	167.19	75.40	4.39	100.00	**	**	13.63	89.79	148.00	73.69
Teff	29.93	13.50	.85	19.36	**	**	8.17	53.82	20.25	10.08
Barely	18.59	8.38	**	**	**	**	**	**	17.64	8.78
Wheat	7.07	3.19	**	**	-	-	**	**	**	**
Maize	52.28	23.58	**	**	**	**	**	**	46.79	23.30
Sorghum	44.50	20.07	**	**	**	**	**	**	44.38	22.10
Millet	13.76	6.21	**	**	**	**	**	**	12.07	6.01
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	24.37	10.99	-	-	-	-	**	**	23.96	11.93
Horse Beans	6.25	2.82	-	-	-	-	-	-	6.25	3.11
Field Peas	2.86	1.29	-	-	-	-	-	-	2.86	1.42
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	7.03	3.17	-	-	-	-	**	**	6.62	3.30
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	5.99	2.70	-	-	-	-	**	**	5.91	2.94
Neug	4.08	1.84	-	-	-	-	-	-	4.07	2.03
Lin Seed	**	**	-	-	-	-	**	**	**	**
Rape seed	**	**	-	-	-	-	**	**	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun-Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	**	**	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	21.52	9.71	-	-	-	-	**	**	20.73	10.32
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	10.80	4.87	-	-	-	-	**	**	10.03	4.99
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Vegetables	**	**	-	-	-	-	**	**	**	**
ALL TEMPORARY	219.07	98.80	4.39	100.00	**	**	14.90	98.16	198.60	98.88
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	**	**	**	**	**	**
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	**	**	-	-	**	**	-	-	**	**
TOTAL PERMANENT	2.66	1.20	-	-	**	**	**	**	2.24	1.12
ALL CROPS	221.73	100.00	4.39	100.00	**	**	15.18	100.00	200.84	100.00

TABLE 3.5.2

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

South Gonder Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	219.33	67.50	**	**	1.22	83.56	26.98	94.34	185.71	64.52
Teff	49.97	15.38	1.09	15.53	.86	58.90	14.35	50.17	33.68	11.70
Barely	55.36	17.04	**	**	**	**	**	**	52.60	18.27
Wheat	23.56	7.25	**	**	**	**	4.02	14.06	19.31	6.71
Maize	55.26	17.01	-	-	**	**	**	**	54.33	18.88
Sorghum	8.34	2.57	-	-	-	-	-	-	8.33	2.89
Millet	26.55	8.17	**	**	**	**	**	**	17.17	5.97
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	42.73	13.15	-	-	**	**	**	**	42.70	14.83
Horse Beans	13.80	4.25	-	-	**	**	**	**	13.77	4.78
Field Peas	6.36	1.96	-	-	-	-	-	-	6.36	2.21
Haricot Beans	6.58	2.03	-	-	-	-	-	-	6.58	2.29
Chick Peas	10.12	3.11	-	-	-	-	-	-	10.12	3.52
Lentils	4.06	1.25	-	-	-	-	-	-	4.06	1.41
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	19.10	5.88	**	**	**	**	**	**	18.99	6.60
Neug	11.76	3.62	-	-	**	**	**	**	11.68	4.06
Lin Seed	6.93	2.13	-	-	-	-	-	-	6.93	2.41
Rape seed	**	**	**	**	-	-	**	**	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	40.70	12.53	**	**	**	**	**	**	37.38	12.99
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	**	**	**	**	4.91	1.71
Potatoes	29.06	8.94	**	**	-	-	**	**	27.46	9.54
Other Vegetables	5.04	1.55	**	**	-	-	**	**	5.01	1.74
ALL TEMPORARY	321.86	99.06	**	**	1.45	99.32	28.60	100.00	284.78	98.94
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	2.79	.86	-	-	**	**	-	-	2.78	.97
TOTAL PERMANENT	3.07	.94	-	-	**	**	-	-	3.06	1.06
ALL CROPS	324.93	100.00	**	**	1.46	100.00	28.60	100.00	287.84	100.00

TABLE 3.5.3

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

North Wolo Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	80.76	68.55	.25	100.00	.84	100.00	3.76	99.73	75.88	67.20
Teff	17.05	14.47	**	**	**	**	**	**	15.34	13.58
Barely	29.11	24.71	-	-	**	**	**	**	28.88	25.58
Wheat	16.76	14.23	**	**	**	**	2.49	66.05	13.94	12.35
Maize	7.04	5.98	-	-	-	-	**	**	6.93	6.14
Sorghum	9.74	8.27	-	-	-	-	-	-	9.74	8.63
Millet	**	**	-	-	-	-	**	**	**	**
Oats	.83	.70	-	-	-	-	-	-	**	**
PULSES	22.49	19.09	-	-	-	-	-	-	22.49	19.92
Horse Beans	9.98	8.47	-	-	-	-	-	-	9.98	8.84
Field Peas	3.99	3.39	-	-	-	-	-	-	3.99	3.53
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	3.56	3.02	-	-	-	-	-	-	3.56	3.15
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	4.55	3.86	-	-	-	-	-	-	4.54	4.02
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	4.31	3.66	-	-	-	-	-	-	4.31	3.82
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	9.31	7.90	-	-	-	-	**	**	9.31	8.24
Fenugreek	2.83	2.40	-	-	-	-	-	-	2.83	2.51
Spices	1.42	1.21	-	-	-	-	**	**	1.42	1.26
Potatoes	1.39	1.18	-	-	-	-	-	-	1.39	1.23
Other Vegetables	3.67	3.12	-	-	-	-	-	-	3.67	3.25
ALL TEMPORARY	117.11	99.41	.25	100.00	.84	100.00	3.77	100.00	112.22	99.38
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	117.81	100.00	.25	100.00	.84	100.00	3.77	100.00	112.92	100.00



TABLE 3.5.4

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

South Wolo Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	184.24	69.89	**	**	1.03	100.00	14.71	98.33	168.48	68.04
Teff	28.88	10.96	**	**	**	**	4.75	31.75	24.03	9.70
Barely	41.10	15.59	-	-	**	**	-	-	40.82	16.49
Wheat	37.24	14.13	-	-	**	**	8.41	56.22	28.43	11.48
Maize	39.46	14.97	-	-	-	-	**	**	39.44	15.93
Sorghum	30.29	11.49	-	-	**	**	**	**	28.49	11.51
Millet	**	**	-	-	-	-	-	-	**	**
Oats	6.82	2.59	-	-	-	-	-	-	6.82	2.75
PULSES	51.55	19.55	-	-	-	-	.03	.20	51.52	20.81
Horse Beans	21.93	8.32	-	-	-	-	**	**	21.92	8.85
Field Peas	11.67	4.43	-	-	-	-	-	-	11.67	4.71
Haricot Beans	6.90	2.62	-	-	-	-	**	**	6.88	2.78
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	5.08	1.93	-	-	-	-	-	-	5.08	2.05
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	1.99	.75	-	-	-	-	**	**	1.96	.79
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	**	**	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	22.23	8.43	-	-	-	-	**	**	22.04	8.90
Fenugreek	4.96	1.88	-	-	-	-	**	**	4.77	1.93
Spices	10.20	3.87	-	-	-	-	-	-	10.20	4.12
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	260.01	98.63	**	**	1.03	100.00	14.96	100.00	244.00	98.54
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	3.61	1.37	-	-	-	-	-	-	3.61	1.46
ALL CROPS	263.62	100.00	**	**	1.03	100.00	14.96	100.00	247.61	100.00

TABLE 3.5.5

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

North Shewa(Amhara) Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	111.95	68.86	**	**	.47	47.96	12.78	93.63	96.70	66.36
Teff	23.26	14.31	**	**	.40	40.82	4.11	30.11	18.52	12.71
Barely	32.08	19.73	**	**	-	-	**	**	30.88	21.19
Wheat	20.09	12.36	**	**	**	**	8.15	59.71	11.27	7.73
Maize	15.36	9.45	-	-	-	-	**	**	15.27	10.48
Sorghum	20.18	12.41	**	**	-	-	**	**	20.13	13.82
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	**	**	**	**
PULSES	36.66	22.55	**	**	**	**	**	**	35.64	24.46
Horse Beans	14.79	9.10	-	-	**	**	-	-	14.68	10.07
Field Peas	2.36	1.45	-	-	-	-	-	-	2.36	1.62
Haricot Beans	6.35	3.91	**	**	-	-	**	**	6.24	4.28
Chick Peas	**	**	**	**	-	-	**	**	**	**
Lentils	7.27	4.47	**	**	**	**	**	**	6.50	4.46
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	2.48	1.53	-	-	**	**	**	**	2.39	1.64
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	1.65	1.01	-	-	-	-	-	-	1.65	1.13
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	.08	.05	-	-	**	**	**	**	**	**
Sesame	**	**	-	-	-	-	**	**	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	6.69	4.11	-	-	**	**	**	**	6.18	4.24
Fenugreek	**	**	-	-	-	-	**	**	.92	.63
Spices	3.29	2.02	-	-	-	-	-	-	3.29	2.26
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	2.18	1.34	-	-	**	**	**	**	**	**
ALL TEMPORARY	157.78	97.05	2.23	100.00	.98	100.00	13.65	100.00	140.91	96.71
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	2.90	1.78	-	-	-	-	-	-	2.90	1.99
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	1.79	1.10	-	-	-	-	-	-	1.79	1.23
TOTAL PERMANENT	4.80	2.95	-	-	-	-	-	-	4.80	3.29
ALL CROPS	162.58	100.00	2.23	100.00	.98	100.00	13.65	100.00	145.71	100.00

TABLE 3.5.6

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

East Gojam Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	102.49	68.74	9.55	88.84	1.27	99.22	24.48	98.00	67.18	59.97
Teff	22.98	15.41	5.12	47.63	.91	71.09	11.76	47.08	5.18	4.62
Barely	19.31	12.95	**	**	**	**	**	**	17.13	15.29
Wheat	15.57	10.44	**	**	**	**	7.71	30.86	6.40	5.71
Maize	37.88	25.41	**	**	**	**	**	**	31.72	28.31
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	18.28	12.26	**	**	-	-	**	**	17.56	15.67
Horse Beans	7.24	4.86	**	**	-	-	**	**	6.82	6.09
Field Peas	2.00	1.34	**	**	-	-	-	-	1.72	1.54
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	3.43	2.30	-	-	-	-	**	**	3.42	3.05
OILSEEDS	10.97	7.36	**	**	**	**	**	**	9.97	8.90
Neug	6.20	4.16	**	**	-	-	-	-	5.87	5.24
Lin Seed	2.83	1.90	**	**	-	-	-	-	2.82	2.52
Rape seed	**	**	**	**	-	-	**	**	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	**	**	**	**	**	**	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	11.36	7.62	-	-	-	-	**	**	11.33	10.11
Fenugreek	**	**	-	-	-	-	**	**	**	**
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Vegetables	3.06	2.05	-	-	-	-	**	**	3.05	2.72
ALL TEMPORARY	143.10	95.98	**	**	1.28	100.00	24.98	100.00	106.04	94.65
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	5.67	3.80	-	-	-	-	-	-	5.67	5.06
TOTAL PERMANENT	5.99	4.02	-	-	-	-	-	-	5.99	5.35
ALL CROPS	149.09	100.00	**	**	1.28	100.00	24.98	100.00	112.03	100.00

TABLE 3.5.7

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

West Gojam Zone

(1000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	110.29	60.18	26.35	93.01	2.81	62.03	21.52	92.60	59.62	46.88
Teff	21.67	11.82	8.50	30.00	**	**	**	**	7.45	5.86
Barely	**	**	**	**	**	**	**	**	**	**
Wheat	1.88	1.03	**	**	**	**	**	**	**	**
Maize	56.32	30.73	4.44	15.67	**	**	14.36	61.79	36.99	29.09
Sorghum	7.13	3.89	-	-	-	-	-	-	7.13	5.61
Millet	18.21	9.94	10.26	36.22	**	**	2.33	10.03	4.80	3.77
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	23.34	12.74	**	**	**	**	**	**	20.93	16.46
Horse Beans	11.75	6.41	**	**	**	**	**	**	9.53	7.49
Field Peas	5.59	3.05	**	**	-	-	-	-	5.40	4.25
Haricot Beans	4.40	2.40	-	-	-	-	-	-	4.40	3.46
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	8.36	4.56	.50	1.76	**	**	.66	2.84	7.18	5.65
Neug	5.54	3.02	**	**	-	-	**	**	4.93	3.88
Lin Seed	1.97	1.07	**	**	-	-	-	-	1.96	1.54
Rape seed	.83	.45	**	**	**	.44	.43	1.85	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	**	**	**	**	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	16.05	8.76	**	**	1.01	22.30	**	**	14.27	11.22
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	14.04	7.66	**	**	1.00	22.08	**	**	12.48	9.81
Potatoes	**	**	**	**	-	-	-	-	**	**
Other Vegetables	1.64	.89	**	**	.01	.22	**	**	1.44	1.13
ALL TEMPORARY	158.04	86.23	28.33	100.00	4.49	99.12	23.22	99.91	102.00	80.21
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	**	**	**	**	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	4.73	2.58	-	-	-	-	-	-	4.73	3.72
TOTAL PERMANENT	**	**	-	-	**	**	**	**	**	**
ALL CROPS	183.27	100.00	28.33	100.00	4.53	100.00	23.24	100.00	127.17	100.00

TABLE 3.5.8

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Waghamera Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	38.04	69.94	-	-	**	**	-	-	38.00	69.93
Teff	3.81	7.00	-	-	**	**	-	-	3.80	6.99
Barely	10.61	19.51	-	-	**	**	-	-	10.61	19.53
Wheat	4.87	8.95	-	-	**	**	-	-	4.84	8.91
Maize	5.07	9.32	-	-	-	-	-	-	5.07	9.33
Sorghum	13.58	24.97	-	-	-	-	-	-	13.58	24.99
Millet	**	**	-	-	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	12.47	22.93	-	-	-	-	-	-	12.47	22.95
Horse Beans	2.97	5.46	-	-	-	-	-	-	2.97	5.47
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	7.14	13.13	-	-	-	-	-	-	7.14	13.14
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	1.69	3.11	-	-	-	-	-	-	1.69	3.11
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	3.31	6.09	-	-	**	**	-	-	3.30	6.07
Neug	.31	.57	-	-	-	-	-	-	.31	.57
Lin Seed	2.33	4.28	-	-	-	-	-	-	2.33	4.29
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	**	**	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	54.30	99.83	-	-	.06	100.00	-	-	54.25	99.83
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	54.39	100.00	-	-	.06	100.00	-	-	54.34	100.00

TABLE 3.5.9

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Agewawia Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	40.78	73.35	4.96	85.52	**	**	2.70	98.54	32.39	70.09
Teff	7.10	12.77	1.42	24.48	**	**	**	**	4.91	10.63
Barely	4.64	8.35	**	**	**	**	-	-	3.32	7.18
Wheat	1.58	2.84	**	**	-	-	-	-	**	**
Maize	21.39	38.47	**	**	**	**	**	**	19.30	41.77
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	4.85	8.72	1.67	28.79	**	**	**	**	2.63	5.69
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	2.89	5.20	**	**	-	-	-	-	2.54	5.50
Horse Beans	1.30	2.34	**	**	-	-	-	-	1.18	2.55
Field Peas	1.50	2.70	**	**	-	-	-	-	**	**
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	4.69	8.44	**	**	-	-	**	**	4.63	10.02
Neug	3.23	5.81	**	**	-	-	-	-	3.22	6.97
Lin Seed	.61	1.10	-	-	-	-	-	-	.61	1.32
Rape seed	**	**	**	**	-	-	**	**	**	**
Ground Nuts	**	**	-	-	-	-	-	-	**	**
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	.16	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	6.85	12.32	**	**	**	**	-	-	6.26	13.55
Fenugreek	**	**	-	-	-	-	-	-	.33	.71
Spices	1.56	2.81	**	**	-	-	-	-	1.35	2.92
Potatoes	2.22	3.99	-	-	-	-	-	-	2.22	4.80
Other Vegetables	2.74	4.93	**	**	**	14.29	-	-	2.36	5.11
ALL TEMPORARY	55.21	99.30	5.80	100.00	.84	100.00	**	**	45.82	99.16
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	55.60	100.00	5.80	100.00	.84	100.00	2.74	100.00	46.21	100.00

TABLE 3.5.10

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Oromia Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	27.32	74.95	**	**	.12	100.00	**	**	26.86	74.65
Teff	4.02	11.03	**	**	-	-	**	**	3.88	10.78
Barely	.80	2.19	-	-	-	-	-	-	.80	2.22
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	9.89	27.13	**	**	**	**	**	**	9.62	26.74
Sorghum	10.54	28.92	-	-	**	**	**	**	10.49	29.16
Millet	**	**	-	-	-	-	-	-	**	**
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	**	**	-	-	-	-	-	-	**	**
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	.62	1.70	-	-	-	-	-	-	.61	1.70
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.89	2.44	-	-	-	-	-	-	.89	2.47
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	.89	2.44	-	-	-	-	-	-	.89	2.47
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	30.55	83.81	**	**	.12	100.00	**	**	30.08	83.60
Chat	4.53	12.43	-	-	-	-	-	-	4.53	12.59
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	5.90	16.19	-	-	-	-	-	-	5.90	16.40
ALL CROPS	36.45	100.00	**	**	.12	100.00	**	**	35.98	100.00

TABLE 3.6

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Oromia

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	1,171.84	70.22	157.16	84.03	14.59	74.71	181.91	95.04	818.18	64.39
Teff	224.34	13.44	45.77	24.47	5.51	28.21	70.15	36.65	102.90	8.10
Barely	148.03	8.87	35.86	19.17	.82	4.20	11.36	5.94	99.99	7.87
Wheat	152.49	9.14	43.93	23.49	1.97	10.09	52.68	27.52	53.92	4.24
Maize	496.21	29.74	24.94	13.34	4.22	21.61	42.40	22.15	424.65	33.42
Sorghum	125.14	7.50	3.26	1.74	2.05	10.50	3.87	2.02	115.96	9.13
Millet	15.05	.90	1.10	.59	**	**	**	**	13.02	1.02
Oats	10.58	.63	2.30	1.23	**	**	**	**	7.74	.61
PULSES	172.01	10.31	22.20	11.87	**	**	4.29	2.24	144.26	11.35
Horse Beans	76.63	4.59	10.76	5.75	**	**	1.54	.80	63.32	4.98
Field Peas	25.75	1.54	6.50	3.48	-	-	**	**	18.04	1.42
Haricot Beans	39.66	2.38	3.32	1.78	**	**	**	**	35.05	2.76
Chick Peas	7.67	.46	.03	.02	-	-	**	**	7.56	.59
Lentils	13.32	.80	1.58	.84	-	-	**	**	11.32	.89
Vetch	8.98	.54	.01	.01	-	-	-	-	8.97	.71
OILSEEDS	53.00	3.18	1.72	.92	**	**	.51	.27	50.70	3.99
Neug	17.66	1.06	-	-	**	**	**	**	17.55	1.38
Lin Seed	20.22	1.21	.33	.18	-	-	**	**	19.85	1.56
Rape seed	12.97	.78	1.37	.73	**	**	**	**	11.25	.89
Ground Nuts	**	**	.02	.01	**	**	**	**	**	**
Sun Flower	**	**	-	-	-	-	**	**	-	-
Sesame	**	**	-	-	**	**	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	78.54	4.71	5.41	2.89	3.07	15.72	2.92	1.53	67.12	5.28
Fenugreek	5.64	.34	.01	.01	-	-	**	**	5.34	.42
Spices	13.06	.78	.66	.35	**	**	**	**	11.47	.90
Potatoes	21.41	1.28	2.45	1.31	**	**	1.35	.71	16.40	1.29
Other Vegetables	38.43	2.30	2.29	1.22	**	**	1.14	.60	33.91	2.67
ALL TEMPORARY	1,475.39	88.42	186.49	99.72	18.99	97.24	189.63	99.08	1,080.26	85.01
Chat	31.83	1.91	.17	.09	.50	2.56	1.29	.67	29.87	2.35
Coffee	117.83	7.06	.30	.16	**	**	**	**	117.15	9.22
Enset	13.43	.80	.01	.01	-	-	**	**	13.41	1.06
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	14.55	.87	.04	.02	**	**	**	**	14.41	1.13
Other Permanent	10.49	.63	.01	.01	-	-	**	**	10.47	.82
TOTAL PERMANENT	193.31	11.58	.53	.28	.54	2.76	1.77	.92	190.49	14.99
ALL CROPS	1,668.70	100.00	187.02	100.00	19.53	100.00	191.40	100.00	1,270.75	100.00



TABLE 3.6.1

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

West Welega Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	76.46	55.69	2.84	100.00	.79	100.00	8.65	96.11	64.18	51.50
Teff	2.94	2.14	**	**	**	**	.53	5.89	1.33	1.07
Barely	**	**	-	-	-	-	**	**	**	**
Wheat	**	**	**	**	-	-	-	-	**	**
Maize	47.68	34.73	**	**	**	**	6.24	69.33	40.28	32.32
Sorghum	18.97	13.82	**	**	**	**	**	**	17.07	13.70
Millet	5.69	4.14	**	**	-	-	**	**	4.48	3.59
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	4.52	3.29	-	-	-	-	**	**	4.26	3.42
Horse Beans	1.84	1.34	-	-	-	-	**	**	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	2.19	1.60	-	-	-	-	-	-	2.18	1.75
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	1.84	1.34	-	-	-	-	**	**	1.82	1.46
Neug	1.82	1.33	-	-	-	-	-	-	1.82	1.46
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	**	**	-	-	-	-	**	**	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	6.98	5.08	-	-	-	-	**	**	6.95	5.58
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	1.68	1.22	-	-	-	-	-	-	1.68	1.35
Potatoes	3.50	2.55	-	-	-	-	-	-	3.49	2.80
Other Vegetables	1.80	1.31	-	-	-	-	**	**	1.78	1.43
ALL TEMPORARY	89.80	65.41	2.84	100.00	.79	100.00	8.92	99.11	77.21	61.95
Chat	**	**	-	-	-	-	**	**	**	**
Coffee	44.60	32.49	-	-	-	-	**	**	44.57	35.76
Enset	**	**	-	-	-	-	**	**	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	2.08	1.52	-	-	-	-	**	**	2.07	1.66
Other Permanent	**	**	-	-	-	-	**	**	-	-
TOTAL PERMANENT	47.49	34.59	-	-	-	-	**	**	47.42	38.05
ALL CROPS	137.29	100.00	2.84	100.00	.79	100.00	9.00	100.00	124.63	100.00

TABLE 3.6.2

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

East Welega Zone

( '000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	69.33	73.02	6.77	93.25	1.16	82.86	8.89	95.18	52.52	68.24
Teff	7.73	8.14	2.76	38.02	.64	45.71	.93	9.96	3.41	4.43
Barely	**	**	**	**	-	-	**	**	**	**
Wheat	2.49	2.62	**	**	.01	.71	**	**	1.27	1.65
Maize	42.57	44.83	2.59	35.67	.50	35.71	7.05	75.48	32.42	42.13
Sorghum	9.88	10.41	-	-	-	-	**	**	9.85	12.80
Millet	3.80	4.00	**	**	**	**	**	**	3.14	4.08
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	5.32	5.60	**	**	-	-	**	**	4.96	6.44
Horse Beans	3.62	3.81	**	**	-	-	**	**	3.26	4.24
Field Peas	**	**	-	-	-	-	**	**	**	**
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	6.08	6.40	**	**	**	**	**	**	5.75	7.47
Neug	4.49	4.73	-	-	**	**	**	**	4.40	5.72
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	.41	.43	**	**	-	-	.16	1.71	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	5.24	5.52	**	**	**	**	**	**	4.75	6.17
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	3.02	3.18	**	**	**	**	**	**	2.63	3.42
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Vegetables	**	**	**	**	-	-	**	**	**	**
ALL TEMPORARY	85.97	90.54	7.26	100.00	1.40	100.00	9.34	100.00	67.98	88.33
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	4.51	4.75	-	-	-	-	-	-	4.51	5.86
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobaco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	8.98	9.46	-	-	-	-	-	-	8.98	11.67
ALL CROPS	94.95	100.00	7.26	100.00	1.40	100.00	9.34	100.00	76.96	100.00

TABLE 3.6.3

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Illibabor Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	66.15	62.62	1.29	100.00	.37	100.00	12.64	99.76	51.88	56.80
Teff	6.86	6.49	.81	62.79	**	**	**	**	5.07	5.55
Barely	.72	.68	-	-	-	-	-	-	.72	.79
Wheat	**	**	**	**	-	-	**	**	**	**
Maize	46.46	43.98	.18	13.95	.36	97.30	**	**	34.28	37.53
Sorghum	11.18	10.58	**	**	-	-	-	-	10.89	11.92
Millet	**	**	-	-	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	3.86	3.65	-	-	-	-	**	**	3.85	4.22
Horse Beans	1.72	1.63	-	-	-	-	-	-	1.72	1.88
Field Peas	1.20	1.14	-	-	-	-	-	-	1.20	1.31
Haricot Beans	.83	.79	-	-	-	-	**	**	.82	.90
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	**	**	-	-	-	-	-	-	**	**
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.67	.63	-	-	-	-	-	-	.67	.73
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	71.13	67.33	1.29	100.00	.37	100.00	12.65	99.84	56.85	62.25
Chat	1.68	1.59	-	-	-	-	-	-	1.68	1.84
Coffee	28.93	27.39	-	-	-	-	**	**	28.90	31.64
Enset	**	**	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	2.32	2.20	-	-	-	-	-	-	2.32	2.54
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	34.51	32.67	-	-	-	-	**	**	34.48	37.75
ALL CROPS	105.64	100.00	1.29	100.00	.37	100.00	12.67	100.00	91.33	100.00

TABLE 3.6.4

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Jimma Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	144.39	72.41	25.86	96.49	**	**	16.54	100.00	99.82	64.86
Teff	55.30	27.73	19.75	73.69	**	**	9.71	58.71	24.38	15.84
Barely	**	**	**	**	-	-	**	**	**	**
Wheat	**	**	**	**	-	-	**	**	**	**
Maize	60.93	30.56	1.91	7.13	**	**	**	**	52.63	34.20
Sorghum	14.98	7.51	-	-	**	**	-	-	14.55	9.45
Millet	**	**	-	-	-	-	-	-	**	**
Oats	**	**	**	**	-	-	-	-	-	-
PULSES	13.01	6.52	**	**	-	-	-	-	12.10	7.86
Horse Beans	7.48	3.75	**	**	-	-	-	-	6.58	4.28
Field Peas	2.30	1.15	-	-	-	-	-	-	2.30	1.49
Haricot Beans	3.09	1.55	-	-	-	-	-	-	3.09	2.01
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	**	**	**	**	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	3.26	1.63	-	-	-	-	-	-	3.26	2.12
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	1.31	.66	-	-	-	-	-	-	1.31	.85
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	4.56	2.29	**	**	-	-	-	-	4.55	2.96
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	.51	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	3.55	1.78	**	**	-	-	-	-	3.54	2.30
ALL TEMPORARY	165.22	82.86	26.78	99.93	**	**	16.54	100.00	119.73	77.80
Chat	2.50	1.25	**	**	-	-	-	-	2.49	1.62
Coffee	23.37	11.72	-	-	-	-	-	-	23.37	15.19
Enset	4.62	2.32	**	**	-	-	-	-	4.61	3.00
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	3.40	1.71	-	-	-	-	-	-	3.40	2.21
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	34.18	17.14	**	**	-	-	-	-	34.16	22.20
ALL CROPS	199.40	100.00	26.80	100.00	**	**	16.54	100.00	153.89	100.00

TABLE 3.6.5

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

West Shewa Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	218.15	72.38	18.41	79.08	1.99	96.60	60.38	98.40	137.38	63.99
Teff	52.93	17.56	3.20	13.75	1.71	83.01	30.87	50.31	17.16	7.99
Barely	29.60	9.82	**	**	-	-	5.12	8.34	17.24	8.03
Wheat	43.10	14.30	5.41	23.24	**	**	21.23	34.60	16.18	7.54
Maize	78.38	26.01	**	**	-	-	**	**	72.66	33.85
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	39.52	13.11	**	**	-	-	**	**	34.12	15.89
Horse Beans	19.58	6.50	**	**	-	-	**	**	17.94	8.36
Field Peas	**	**	**	**	-	-	**	**	1.69	.79
Haricot Beans	2.53	.84	-	-	-	-	-	-	2.53	1.18
Chick Peas	**	**	**	**	-	-	-	-	**	**
Lentils	4.11	1.36	**	**	-	-	**	**	2.93	1.36
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	16.09	5.34	-	-	-	-	**	**	16.06	7.48
Neug	5.13	1.70	-	-	-	-	-	-	5.13	2.39
Lin Seed	5.76	1.91	-	-	-	-	**	**	5.73	2.67
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	12.88	4.27	**	**	**	**	**	**	12.57	5.86
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	**	**	**	**	-	-	**	**
Potatoes	4.39	1.46	-	-	-	-	**	**	4.36	2.03
Other Vegetables	5.85	1.94	-	-	-	-	**	**	5.84	2.72
ALL TEMPORARY	286.64	95.11	23.28	100.00	2.06	100.00	61.17	99.69	200.13	93.22
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	**	**	-	-	-	-	**	**	**	**
Enset	4.89	1.62	-	-	-	-	-	-	4.89	2.28
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	14.74	4.89	-	-	-	-	**	**	14.55	6.78
ALL CROPS	301.38	100.00	23.28	100.00	2.06	100.00	61.36	100.00	214.68	100.00

TABLE 3.6.6

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

North Shewa(Oromia) Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	139.68	75.36	**	**	**	**	25.48	96.96	111.91	71.38
Teff	33.72	18.19	**	**	**	**	10.25	39.00	22.68	14.47
Barely	48.36	26.09	**	**	-	-	1.59	6.05	46.74	29.81
Wheat	27.41	14.79	**	**	**	**	13.47	51.26	12.67	8.08
Maize	17.00	9.17	-	-	-	-	**	**	16.85	10.75
Sorghum	10.91	5.89	-	-	**	**	**	**	10.69	6.82
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	29.12	15.71	-	-	-	-	**	**	28.80	18.37
Horse Beans	13.83	7.46	-	-	-	-	-	-	13.83	8.82
Field Peas	4.25	2.29	-	-	-	-	**	**	4.07	2.60
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	5.23	2.82	-	-	-	-	**	**	5.09	3.25
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	10.03	5.41	-	-	-	-	**	**	9.83	6.27
Neug	3.26	1.76	-	-	-	-	**	**	3.25	2.07
Lin Seed	4.69	2.53	-	-	-	-	-	-	4.69	2.99
Rape seed	**	**	-	-	-	-	**	**	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	**	**	-	-	-	-	**	**	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	3.18	1.72	-	-	-	-	**	**	2.90	1.85
Fenugreek	1.81	.98	-	-	-	-	**	**	1.54	.98
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	**	**	**	**
ALL TEMPORARY	182.01	98.19	**	**	**	**	26.28	100.00	153.44	97.86
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	1.55	.84	-	-	-	-	-	-	1.55	.99
TOTAL PERMANENT	3.35	1.81	-	-	-	-	-	-	3.35	2.14
ALL CROPS	185.36	100.00	**	**	**	**	26.28	100.00	156.79	100.00

TABLE 3.6.7

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

East Shewa Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	105.61	74.72	11.27	70.04	**	**	25.92	91.72	67.36	70.24
Teff	20.89	14.78	3.19	19.83	**	**	11.21	39.67	6.29	6.56
Barely	7.98	5.65	1.45	9.01	**	**	**	**	3.22	3.36
Wheat	13.54	9.58	**	**	**	**	8.58	30.36	**	**
Maize	55.54	39.29	**	**	**	**	**	**	48.39	50.46
Sorghum	7.34	5.19	**	**	**	**	**	**	6.39	6.66
Millet	**	**	**	**	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	23.67	16.75	3.33	20.70	-	-	**	**	18.47	19.26
Horse Beans	2.79	1.97	**	**	-	-	**	**	1.92	2.00
Field Peas	**	**	**	**	-	-	**	**	-	-
Haricot Beans	17.56	12.42	2.30	14.29	-	-	**	**	14.52	15.14
Chick Peas	1.26	.89	-	-	-	-	-	-	1.25	1.30
Lentils	**	**	**	**	-	-	**	**	**	**
Vetch	**	**	**	**	-	-	-	-	**	**
OILSEEDS	2.91	2.06	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	8.49	6.01	1.49	9.26	**	**	**	**	6.50	6.78
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	**	**	-	-	-	-	**	**
Potatoes	**	**	**	**	-	-	**	**	**	**
Other Vegetables	5.96	4.22	**	**	**	**	**	**	5.20	5.42
ALL TEMPORARY	140.68	99.53	16.09	100.00	1.09	100.00	28.26	100.00	95.24	99.31
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	**	**	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	.67	.47	-	-	-	-	-	-	.66	.69
ALL CROPS	141.35	100.00	16.09	100.00	1.09	100.00	28.26	100.00	95.90	100.00

TABLE 3.6.8

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Arsi Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	194.02	72.53	79.39	82.14	1.78	53.78	10.53	88.12	102.29	65.76
Teff	30.33	11.34	14.11	14.60	**	**	3.78	31.63	11.63	7.48
Barely	38.48	14.38	23.03	23.83	.55	16.62	**	**	13.77	8.85
Wheat	39.75	14.86	28.49	29.48	**	**	5.49	45.94	5.62	3.61
Maize	73.15	27.34	10.88	11.26	**	**	**	**	61.86	39.77
Sorghum	10.03	3.75	**	**	-	-	**	**	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	**	**	-	-	-	-	**	**
PULSES	37.12	13.88	12.89	13.34	**	**	**	**	22.44	14.43
Horse Beans	20.48	7.66	7.58	7.84	**	**	**	**	11.18	7.19
Field Peas	9.49	3.55	3.93	4.07	-	-	**	**	**	**
Haricot Beans	5.53	2.07	**	**	-	-	-	-	4.53	2.91
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	**	**	**	**	-	-	-	-	**	**
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	8.91	3.33	1.62	1.68	-	-	-	-	7.29	4.69
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	6.12	2.29	**	**	-	-	-	-	5.79	3.72
Rape seed	**	**	1.29	1.33	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	16.40	6.13	2.74	2.83	**	**	**	**	12.46	8.01
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	**	**	**	**	-	-	**	**
Potatoes	**	**	**	**	-	-	-	-	**	**
Other Vegetables	7.68	2.87	.97	1.00	**	**	**	**	6.01	3.86
ALL TEMPORARY	256.45	95.87	96.64	99.99	3.31	100.00	11.95	100.00	144.48	92.89
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	**	**	-	-	-	-	**	**
TOTAL PERMANENT	**	**	**	**	-	-	-	-	**	**
ALL CROPS	267.51	100.00	96.65	100.00	3.31	100.00	11.95	100.00	155.54	100.00



TABLE 3.6.9

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

West Harerge Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	37.12	54.76	1.08	66.26	**	**	1.96	84.48	33.29	52.87
Teff	1.60	2.36	**	**	-	-	**	**	**	**
Barely	2.48	3.66	-	-	-	-	-	-	2.48	3.93
Wheat	**	**	-	-	-	-	**	**	**	**
Maize	17.17	25.33	.69	42.33	**	**	1.24	53.45	14.47	22.98
Sorghum	12.85	18.96	**	**	**	**	**	**	12.57	19.96
Millet	**	**	-	-	-	-	-	-	**	**
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	5.03	7.42	-	-	-	-	**	**	4.95	7.86
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	**	**	-	-	-	-	**	**	**	**
Chick Peas	**	**	-	-	-	-	**	**	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	**	**	-	-	-	-	-	-	**	**
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	5.17	7.63	**	**	-	-	-	-	4.92	7.81
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Vegetables	3.00	4.43	**	**	-	-	-	-	2.75	4.37
ALL TEMPORARY	47.76	70.45	1.33	81.60	**	**	2.05	88.36	43.60	69.24
Chat	13.85	20.43	.02	1.23	**	**	.15	6.47	13.62	21.63
Coffee	5.66	8.35	**	**	**	**	.12	5.17	5.24	8.32
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	20.03	29.55	**	**	.07	8.33	.27	11.64	19.37	30.76
ALL CROPS	67.79	100.00	1.63	100.00	**	**	2.32	100.00	62.97	100.00

TABLE 3.6.10

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

East Harerge Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	46.63	63.49	**	**	3.05	51.96	8.83	77.52	34.13	61.87
Teff	**	**	-	-	**	**	**	**	1.44	2.61
Barely	**	**	-	-	-	-	**	**	**	**
Wheat	5.90	8.03	**	**	**	**	**	**	4.11	7.45
Maize	23.35	31.79	**	**	**	**	3.29	28.88	17.89	32.43
Sorghum	12.89	17.55	**	**	1.09	18.57	2.34	20.54	9.35	16.95
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	**	**	**	**
PULSES	**	**	**	**	**	**	**	**	**	**
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	1.10	1.50	**	**	**	**	**	**	**	**
Chick Peas	**	**	-	-	-	-	-	-	-	-
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	**	**	**	**	**	**	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	**	**	**	**	**	**	**	**	**	**
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	**	**	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	9.44	12.85	**	**	**	**	1.12	9.83	6.00	10.88
Fenugreek	**	**	-	-	-	-	**	**	**	**
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	3.33	4.53	**	**	**	**	.92	8.08	**	**
Other Vegetables	4.53	6.17	**	**	**	**	**	**	3.42	6.20
ALL TEMPORARY	61.94	84.33	**	**	5.42	92.33	10.27	90.17	45.36	82.23
Chat	7.81	10.63	.14	13.73	.45	7.67	**	**	6.10	11.06
Coffee	3.27	4.45	-	-	-	-	-	-	3.27	5.93
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	11.51	15.67	.14	13.73	.45	7.67	**	**	9.80	17.77
ALL CROPS	73.45	100.00	**	**	5.87	100.00	11.39	100.00	55.16	100.00

TABLE 3.6.11

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Bale Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	44.06	82.94	8.21	97.04	.25	100.00	1.37	100.00	34.23	79.53
Teff	8.04	15.14	**	**	**	**	**	**	7.59	17.63
Barely	6.93	13.05	1.49	17.61	**	**	**	**	5.28	12.27
Wheat	14.83	27.92	5.66	66.90	**	**	1.21	88.32	7.92	18.40
Maize	9.96	18.75	**	**	-	-	-	-	9.65	22.42
Sorghum	**	4.27	-	-	-	-	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	2.03	3.82	**	**	**	**	**	**	1.52	3.53
PULSES	3.96	7.45	-	-	-	-	-	-	3.96	9.20
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	.90	1.69	-	-	-	-	-	-	.90	2.09
Vetch	**	.32	-	-	-	-	-	-	**	**
OILSEEDS	1.17	2.20	-	-	-	-	-	-	1.17	2.72
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	.58	1.09	-	-	-	-	-	-	.58	1.36
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	3.09	5.82	**	**	-	-	-	-	2.84	6.60
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	.30	.56	**	**	-	-	-	-	.29	.67
Potatoes	**	**	**	**	-	-	-	-	**	**
Other Vegetables	1.19	2.24	**	**	-	-	-	-	1.04	2.42
ALL TEMPORARY	52.28	98.42	8.46	100.00	.25	100.00	1.37	100.00	42.20	98.05
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	**	**	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	53.12	100.00	8.46	100.00	.25	100.00	1.37	100.00	43.04	100.00

TABLE 3.6.12

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Borena Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	30.23	72.84	**	**	.01	5.26	**	**	29.19	73.16
Teff	1.38	3.33	**	**	-	-	**	**	1.12	2.81
Barely	**	**	**	**	-	-	-	-	**	**
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	24.01	57.86	**	**	.01	5.26	**	**	23.26	58.30
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	2.87	6.92	-	-	-	-	-	-	2.87	7.19
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	2.37	5.71	-	-	-	-	-	-	2.37	5.94
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	2.43	5.86	**	**	**	**	**	**	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	2.43	5.86	**	**	**	**	**	**	**	**
ALL TEMPORARY	35.53	85.61	.44	89.80	**	**	**	**	34.08	85.41
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	2.98	7.18	**	**	-	-	-	-	2.96	7.42
Enset	**	**	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	**	**	.01	5.26	**	**	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	5.97	14.39	**	**	.01	5.26	**	**	5.82	14.59
ALL CROPS	41.50	100.00	.49	100.00	**	**	**	**	39.90	100.00

TABLE 3.7

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Somale

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	10.70	79.85	-	-	-	-	**	**	10.69	79.84
Teff	-	-	-	-	-	-	-	-	-	-
Barely	2.42	18.06	-	-	-	-	-	-	2.42	18.07
Wheat	2.18	16.27	-	-	-	-	-	-	2.18	16.28
Maize	4.33	32.31	-	-	-	-	-	-	4.33	32.34
Sorghum	1.58	11.79	-	-	-	-	**	**	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	.21	1.57	-	-	-	-	-	-	.21	1.57
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.18	1.34	-	-	-	-	-	-	.18	1.34
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	11.37	84.85	-	-	-	-	**	**	11.36	84.84
Chat	1.92	14.33	-	-	-	-	-	-	1.92	14.34
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	2.03	15.15	-	-	-	-	-	-	2.03	15.16
ALL CROPS	13.40	100.00	-	-	-	-	**	**	13.39	100.00

TABLE 3.7.1

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Shinele Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	.17	24.64	-	-	-	-	**	**	.17	24.64
Teff	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	**	**	-	-	-	-	-	-	**	**
Sorghum	.12	17.39	-	-	-	-	**	**	.12	17.39
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	**	**	-	-	-	-	**	**	**	**
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	**	**	-	-	-	-	**	**	**	**

TABLE 3.7.2

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Jijiga Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	8.92	81.46	-	-	-	-	-	-	8.92	81.46
Teff	-	-	-	-	-	-	-	-	-	-
Barely	2.42	22.10	-	-	-	-	-	-	2.42	22.10
Wheat	2.15	19.63	-	-	-	-	-	-	2.15	19.63
Maize	2.74	25.02	-	-	-	-	-	-	2.74	25.02
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	**	**	-	-	-	-	-	-	**	**
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	9.28	84.75	-	-	-	-	-	-	9.28	84.75
Chat	1.67	15.25	-	-	-	-	-	-	1.67	15.25
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	1.67	15.25	-	-	-	-	-	-	1.67	15.25
ALL CROPS	10.95	100.00	-	-	-	-	-	-	10.95	100.00

TABLE 3.7.3

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

**Moyale Zone**

('000 QT)

[illegible]



TABLE 3.8

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Benshangul-Gumuz

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	27.21	73.88	**	**	**	**	.66	89.19	25.74	73.75
Teff	2.00	5.43	**	**	**	**	**	**	1.50	4.30
Barely	**	**	**	**	-	-	**	**	**	**
Wheat	**	**	**	**	-	-	**	**	**	**
Maize	15.46	41.98	**	**	**	**	.52	70.27	14.82	42.46
Sorghum	5.45	14.80	**	**	-	-	**	**	5.40	15.47
Millet	**	**	**	**	-	-	-	-	**	**
Oats	**	.14	-	-	-	-	-	-	**	**
PULSES	2.98	8.09	**	**	-	-	-	-	2.92	8.37
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	**	**	-	-	-	-	**	**
Haricot Beans	1.68	4.56	-	-	-	-	-	-	1.68	4.81
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	2.28	6.19	-	-	-	-	-	-	2.28	6.53
Neug	.80	2.17	-	-	-	-	-	-	.80	2.29
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	.26	.71	-	-	-	-	-	-	.26	.74
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	1.15	3.12	-	-	-	-	-	-	1.15	3.30
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	3.17	8.61	**	**	**	**	**	**	2.77	7.94
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	1.18	3.20	-	-	**	**	**	**	1.08	3.09
Potatoes	**	.90	**	**	-	-	-	-	.15	.43
Other Vegetables	1.58	4.29	**	**	-	-	**	**	1.46	4.18
ALL TEMPORARY	35.64	96.77	**	**	**	**	.74	100.00	33.71	96.59
Chat	**	**	-	-	-	-	-	-	.08	.23
Coffee	.35	.95	-	-	-	-	-	-	.35	1.00
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	.14	.38	-	-	-	-	-	-	.14	.40
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	1.19	3.23	-	-	-	-	-	-	1.19	3.41
ALL CROPS	36.83	100.00	**	**	**	**	.74	100.00	34.90	100.00

TABLE 3.8.1

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Metekel Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	9.41	65.62	.64	67.37	-	-	.39	90.70	8.38	64.66
Teff	1.20	8.37	.36	37.89	-	-	**	**	.78	6.02
Barely	**	**	.04	4.21	-	-	**	**	**	**
Wheat	**	**	.12	12.63	-	-	**	**	**	**
Maize	4.54	31.66	.04	4.21	-	-	.29	67.44	4.21	32.48
Sorghum	1.71	11.92	-	-	-	-	-	-	1.71	13.19
Millet	1.42	9.90	.08	8.42	-	-	-	-	1.34	10.34
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	2.17	15.13	.06	6.32	-	-	-	-	2.11	16.28
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	.06	6.32	-	-	-	-	.02	.15
Haricot Beans	1.41	9.83	-	-	-	-	-	-	1.41	10.88
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.99	6.90	-	-	-	-	-	-	.99	7.64
Neug	.35	2.44	-	-	-	-	-	-	.35	2.70
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	.02	.14	-	-	-	-	-	-	**	**
Ground Nuts	.16	1.12	-	-	-	-	-	-	.16	1.23
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	.46	3.21	-	-	-	-	-	-	.46	3.55
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	.25	26.32	-	-	**	**	**	**
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	**	**	.18	18.95	-	-	-	-	**	**
Other Vegetables	**	**	.07	7.37	-	-	**	**	**	**
ALL TEMPORARY	13.98	97.49	.95	100.00	-	-	.43	100.00	12.60	97.22
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	.36	2.51	-	-	-	-	-	-	.36	2.78
ALL CROPS	14.34	100.00	.95	100.00	-	-	.43	100.00	12.96	100.00

TABLE 3.8.2

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Asosa Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	12.58	77.46	.09	100.00	**	**	.25	86.21	12.17	77.32
Teff	**	**	**	**	**	**	-	-	**	**
Barely	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	8.75	53.88	**	**	**	**	.21	72.41	8.48	53.88
Sorghum	2.95	18.17	**	**	-	-	**	**	2.89	18.36
Millet	.26	1.60	-	-	-	-	-	-	.26	1.65
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	**	**	-	-	-	-	-	-	**	**
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	1.01	6.22	-	-	-	-	-	-	1.01	6.42
Neug	.41	2.52	-	-	-	-	-	-	.41	2.60
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	**	**	-	-	-	-	-	-	**	**
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	1.70	10.47	-	-	**	**	**	**	1.61	10.23
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	1.00	6.16	-	-	**	**	**	**	.91	5.78
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.70	4.31	-	-	-	-	-	-	.70	4.45
ALL TEMPORARY	15.43	95.01	.09	100.00	**	**	.29	100.00	14.93	94.85
Chat	**	.49	-	-	-	-	-	-	**	**
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	16.24	100.00	.09	100.00	**	**	.29	100.00	15.74	100.00

TABLE 3.8.3

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Kemeshi Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	**	**	.01	100.00	-	-	**	**	**	**
Teff	**	**	-	-	-	-	-	-	**	**
Barely	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	2.16	34.50	.01	100.00	-	-	**	**	2.13	34.19
Sorghum	.80	12.78	-	-	-	-	-	-	.80	12.84
Millet	**	**	-	-	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	**	**	-	-	-	-	-	-	**	**
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.27	4.31	-	-	-	-	-	-	.27	4.33
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	.04	.64	-	-	-	-	-	-	.04	.64
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	.20	3.19	-	-	-	-	-	-	.20	3.21
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.06	.96	-	-	-	-	-	-	.06	.96
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	**	**	.01	100.00	-	-	**	**	**	**
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	6.26	100.00	.01	100.00	-	-	**	**	**	**

TABLE 3.9

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

(S.N.N.P.R)

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	354.85	53.49	62.18	77.82	8.60	60.22	49.09	83.89	234.97	46.01
Teff	83.85	12.64	18.21	22.79	2.53	17.72	8.94	15.28	54.17	10.61
Barely	24.63	3.71	5.53	6.92	**	**	2.57	4.39	15.50	3.04
Wheat	22.73	3.43	8.21	10.28	**	**	5.75	9.83	8.41	1.65
Maize	172.10	25.94	28.52	35.69	4.05	28.36	30.22	51.64	109.30	21.40
Sorghum	45.29	6.83	.86	1.08	**	**	**	**	43.20	8.46
Millet	6.24	.94	**	**	**	**	**	**	4.38	.86
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	77.04	11.61	11.55	14.46	2.37	16.60	3.52	6.02	59.59	11.67
Horse Beans	20.59	3.10	4.87	6.10	**	**	1.58	2.70	13.64	2.67
Field Peas	16.14	2.43	1.51	1.89	**	**	**	**	13.86	2.71
Haricot Beans	35.21	5.31	4.81	6.02	**	**	1.40	2.39	27.36	5.36
Chick Peas	3.71	.56	**	.20	-	-	-	-	3.55	.70
Lentils	**	**	**	**	-	-	-	-	**	**
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	2.61	.39	**	**	**	**	**	**	1.85	.36
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	**	**	**	**	**	**	**	**	**	**
Rape seed	**	**	**	**	-	-	-	-	**	**
Ground Nuts	**	**	-	-	-	-	-	-	**	**
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	88.15	13.29	3.84	4.81	2.36	16.53	4.92	8.41	77.02	15.08
Fenugreek	**	**	**	**	**	**	**	**	**	**
Spices	20.74	3.13	2.45	3.07	1.14	7.98	3.42	5.84	13.72	2.69
Potatoes	14.34	2.16	.94	1.18	**	**	.76	1.30	12.38	2.42
Other Vegetables	52.19	7.87	**	**	**	**	**	**	50.51	9.89
ALL TEMPORARY	522.65	78.78	77.94	97.55	13.58	95.10	57.67	98.55	373.43	73.13
Chat	23.20	3.50	**	**	**	**	**	**	22.67	4.44
Coffee	48.39	7.29	1.01	1.26	.35	2.45	.42	.72	46.61	9.13
Enset	53.68	8.09	**	**	**	**	**	**	53.01	10.38
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	1.73	.26	**	**	-	-	-	-	1.66	.33
Fruits	7.79	1.17	**	**	**	**	.03	.05	7.61	1.49
Other Permanent	3.85	.58	.09	.11	**	**	**	**	3.55	.70
TOTAL PERMANENT	140.76	21.22	1.96	2.45	.70	4.90	.85	1.45	137.23	26.87
ALL CROPS	663.41	100.00	79.90	100.00	14.28	100.00	58.52	100.00	510.66	100.00

TABLE 3.9.1

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Gurage Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	82.27	50.09	16.66	79.87	**	**	16.66	83.09	46.51	39.07
Teff	18.18	11.07	5.54	26.56	**	**	3.99	19.90	8.19	6.88
Barely	9.65	5.88	4.00	19.18	**	**	**	**	3.40	2.86
Wheat	8.95	5.45	**	**	**	**	1.85	9.23	3.98	3.34
Maize	34.50	21.01	4.19	20.09	**	**	9.06	45.19	20.52	17.24
Sorghum	10.62	6.47	**	**	**	**	**	**	10.05	8.44
Millet	**	**	-	-	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	17.94	10.92	2.44	11.70	**	**	**	**	13.20	11.09
Horse Beans	9.75	5.94	1.68	8.05	**	**	**	**	6.33	5.32
Field Peas	2.37	1.44	**	**	**	**	**	**	**	**
Haricot Beans	2.21	1.35	**	**	-	-	-	-	2.19	1.84
Chick Peas	2.45	1.49	-	-	-	-	-	-	2.45	2.06
Lentils	**	**	**	**	-	-	-	-	**	**
Vetch	**	**	-	-	-	-	-	-	**	**
OILSEEDS	2.16	1.32	**	**	**	**	-	-	1.55	1.30
Neug	**	**	-	-	-	-	-	-	**	**
Lin Seed	**	**	**	**	**	**	-	-	-	-
Rape seed	**	**	-	-	-	-	-	-	**	**
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	18.00	10.96	1.38	6.62	.92	21.55	1.76	8.78	13.94	11.71
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	11.55	7.03	1.21	5.80	**	**	**	**	8.30	6.97
Potatoes	**	**	**	**	**	**	**	**	**	**
Other Vegetables	5.41	3.29	**	**	-	-	**	**	5.30	4.45
ALL TEMPORARY	120.37	73.29	20.84	99.90	4.27	100.00	20.05	100.00	75.20	63.18
Chat	14.89	9.07	-	-	-	-	-	-	14.88	12.50
Coffee	5.86	3.57	**	**	-	-	-	-	5.84	4.91
Enset	16.73	10.19	-	-	-	-	-	-	16.73	14.06
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	43.86	26.71	**	**	-	-	-	-	43.83	36.82
ALL CROPS	164.23	100.00	20.86	100.00	4.27	100.00	20.05	100.00	119.03	100.00

TABLE 3.9.2

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Hadiya Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	44.93	64.17	12.26	79.20	**	**	9.71	90.49	20.83	50.16
Teff	8.52	12.17	3.75	24.22	**	**	3.22	30.01	**	**
Barely	2.42	3.46	1.26	8.14	-	-	**	**	**	**
Wheat	6.93	9.90	3.56	23.00	**	**	2.90	27.03	**	**
Maize	20.73	29.61	3.53	22.80	**	**	**	**	13.52	32.55
Sorghum	5.65	8.07	**	**	-	-	**	**	5.19	12.50
Millet	**	**	-	-	**	**	**	**	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	5.90	8.43	2.35	15.18	**	**	.38	3.54	3.17	7.63
Horse Beans	2.71	3.87	1.65	10.66	**	**	**	**	.79	1.90
Field Peas	**	**	.49	3.17	-	-	**	**	**	**
Haricot Beans	1.82	2.60	**	**	-	-	**	**	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	**	**	**	**	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	**	**	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	**	**	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	6.27	8.95	.75	4.84	**	**	**	**	4.92	11.85
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	**	**	**	**	**	**	**	**
Potatoes	1.74	2.49	**	**	-	-	**	**	**	**
Other Vegetables	3.88	5.54	**	**	-	-	-	-	3.70	8.91
ALL TEMPORARY	57.24	81.75	15.36	99.22	**	**	10.69	99.63	28.92	69.64
Chat	2.30	3.28	**	**	-	-	**	**	2.29	5.51
Coffee	5.52	7.88	**	**	**	**	**	**	5.45	13.12
Enset	3.43	4.90	**	**	-	-	-	-	3.42	8.24
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	**	**	-	-	-	-	**	**
Fruits	**	**	**	**	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	12.78	18.25	**	**	**	**	**	**	12.61	30.36
ALL CROPS	70.02	100.00	15.48	100.00	**	**	10.73	100.00	41.53	100.00

TABLE 3.9.3

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Kembata Alaba Tembaro Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	42.43	61.62	12.52	75.92	1.66	72.81	5.98	67.95	22.27	53.94
Teff	8.73	12.68	5.21	31.59	**	**	1.37	15.57	1.86	4.50
Barely	**	**	**	**	-	-	**	**	**	**
Wheat	2.88	4.18	1.36	8.25	**	**	.74	8.41	.67	1.62
Maize	22.66	32.91	4.25	25.77	**	**	2.51	28.52	14.75	35.72
Sorghum	4.69	6.81	**	**	**	**	**	**	4.01	9.71
Millet	2.39	3.47	**	**	**	**	**	**	.83	2.01
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	6.59	9.57	2.35	14.25	**	**	**	**	3.72	9.01
Horse Beans	2.64	3.83	1.53	9.28	**	**	**	**	1.04	2.52
Field Peas	.75	1.09	**	**	-	-	**	**	**	**
Haricot Beans	3.20	4.65	.44	2.67	**	**	**	**	2.52	6.10
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	11.90	17.28	1.59	9.64	**	**	2.35	26.70	7.42	17.97
Fenugreek	**	**	**	**	**	**	**	**	**	**
Spices	5.03	7.30	1.21	7.34	**	**	**	**	1.63	3.95
Potatoes	1.82	2.64	**	**	**	**	**	**	1.37	3.32
Other Vegetables	4.17	6.06	.03	.18	-	-	**	**	4.01	9.71
ALL TEMPORARY	60.92	88.47	16.46	99.82	2.28	100.00	8.77	99.66	33.41	80.92
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	3.76	5.46	**	**	-	-	**	**	3.73	9.03
Enset	2.53	3.67	-	-	-	-	**	**	2.53	6.13
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	**	**	**	**	-	-	**	**	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	7.94	11.53	.03	.18	-	-	**	**	7.88	19.08
ALL CROPS	68.86	100.00	16.49	100.00	2.28	100.00	8.80	100.00	41.29	100.00



TABLE 3.9.4

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Sidama Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	38.15	53.69	8.18	69.15	**	**	3.66	67.03	25.87	49.84
Teff	**	**	**	**	-	-	**	**	**	**
Barely	**	**	-	-	-	-	-	-	**	**
Wheat	**	**	**	**	-	-	-	-	-	-
Maize	36.73	51.69	7.99	67.54	**	**	3.58	65.57	24.72	47.62
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	**	**	**	**	**	**	**	**	**	**
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	**	**	**	**	**	**	**	**	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	1.60	2.25	.06	.51	**	**	**	**	1.04	2.00
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	1.60	2.25	.06	.51	**	**	**	**	1.04	2.00
ALL TEMPORARY	45.78	64.42	10.07	85.12	**	**	4.70	86.08	29.83	57.46
Chat	4.97	6.99	**	**	**	**	**	**	4.46	8.59
Coffee	12.68	17.84	**	**	.33	17.84	**	**	11.05	21.29
Enset	5.95	8.37	**	**	**	**	**	**	5.33	10.27
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	.34	.48	**	**	**	**	**	**	**	**
Other Permanent	**	**	.08	.68	**	**	**	**	**	**
TOTAL PERMANENT	25.28	35.58	1.76	14.88	.68	36.76	**	**	22.08	42.54
ALL CROPS	71.06	100.00	11.83	100.00	1.85	100.00	5.46	100.00	51.91	100.00

TABLE 3.9.5

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Gedio Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	3.71	37.06	**	**	.01	5.26	**	**	3.47	36.22
Teff	**	**	-	-	-	-	-	-	**	**
Barely	1.35	13.49	-	-	-	-	**	**	1.28	13.36
Wheat	**	**	-	-	-	-	**	**	-	-
Maize	2.21	22.08	**	**	.01	5.26	**	**	2.05	21.40
Sorghum	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	**	**	-	-	-	-	-	-	**	**
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	**	**	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	**	**	-	-	**	**
ALL TEMPORARY	6.00	59.94	**	**	**	**	**	**	5.59	58.35
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	2.47	24.68	-	-	**	**	-	-	2.46	25.68
Enset	1.54	15.38	-	-	-	-	-	-	1.53	15.97
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	4.01	40.06	-	-	**	**	-	-	3.99	41.65
ALL CROPS	10.01	100.00	**	**	**	**	**	**	9.58	100.00

TABLE 3.9.6

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

North Omo Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	99.97	49.05	10.73	80.43	1.36	48.06	12.32	97.24	75.56	43.18
Teff	34.82	17.08	2.66	19.94	**	**	-	-	31.67	18.10
Barely	**	**	**	**	-	-	-	-	**	**
Wheat	**	**	**	**	-	-	**	**	**	**
Maize	43.59	21.39	**	**	**	**	12.21	96.37	23.04	13.17
Sorghum	10.33	5.07	**	**	**	**	-	-	10.05	5.74
Millet	**	**	-	-	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	29.52	14.48	**	**	**	**	**	**	25.58	14.62
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	5.95	2.92	-	-	-	-	-	-	5.95	3.40
Haricot Beans	20.97	10.29	**	**	**	**	**	**	17.19	9.82
Chick Peas	**	**	**	**	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	44.18	21.67	**	**	**	**	**	**	43.72	24.98
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	9.44	4.63	-	-	-	-	-	-	9.44	5.39
Other Vegetables	32.54	15.96	**	**	**	**	**	**	32.08	18.33
ALL TEMPORARY	173.67	85.20	13.32	99.85	**	**	12.66	99.92	144.86	82.78
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	13.72	6.73	**	**	-	-	**	**	13.71	7.83
Enset	13.03	6.39	**	**	-	-	-	-	13.02	7.44
Cotton	**	**	-	-	-	-	-	-	**	**
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	30.16	14.80	**	**	-	-	**	**	30.14	17.22
ALL CROPS	203.83	100.00	13.34	100.00	**	**	12.67	100.00	175.00	100.00

TABLE 3.9.7

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

South Omo Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	8.11	68.27	.01	100.00	-	-	.14	93.33	7.96	67.98
Teff	**	**	-	-	-	-	.04	26.67	**	**
Barely	**	**	-	-	-	-	-	-	**	**
Wheat	**	**	-	-	-	-	**	**	**	**
Maize	1.37	11.53	.01	100.00	-	-	**	**	1.31	11.19
Sorghum	4.50	37.88	-	-	-	-	-	-	4.50	38.43
Millet	**	**	-	-	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.49	4.12	-	-	-	-	**	**	.47	4.01
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	**	**	-	-	-	-	**	**	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	**	**	-	-	-	-	-	-	**	**
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	1.26	10.76
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	10.12	85.19	.01	100.00	-	-	.15	100.00	9.95	84.97
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	**	**	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	1.76	14.81	-	-	-	-	-	-	1.76	15.03
ALL CROPS	11.88	100.00	.01	100.00	-	-	.15	100.00	11.71	100.00

TABLE 3.9.8

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Keficho-Shekicho Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	15.11	42.59	.71	100.00	**	**	**	**	13.99	40.72
Teff	6.62	18.66	.14	19.72	**	**	**	**	6.07	17.67
Barely	.65	1.83	-	-	-	-	-	-	.65	1.89
Wheat	.44	1.24	.04	5.63	-	-	-	-	**	**
Maize	5.10	14.37	**	**	-	-	-	-	4.60	13.39
Sorghum	1.91	5.38	**	**	-	-	-	-	1.88	5.47
Millet	**	**	-	-	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	7.94	22.38	-	-	-	-	-	-	7.94	23.11
Horse Beans	3.27	9.22	-	-	-	-	-	-	3.27	9.52
Field Peas	3.38	9.53	-	-	-	-	-	-	3.38	9.84
Haricot Beans	1.29	3.64	-	-	-	-	-	-	1.29	3.75
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	1.65	4.65	-	-	-	-	-	-	1.65	4.80
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Vegetables	.60	1.69	-	-	-	-	-	-	.60	1.75
ALL TEMPORARY	24.70	69.62	.71	100.00	**	**	**	**	23.58	68.63
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	1.38	3.89	-	-	-	-	-	-	1.38	4.02
Enset	8.63	24.32	-	-	-	-	-	-	8.63	25.12
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	10.78	30.38	-	-	-	-	-	-	10.78	31.37
ALL CROPS	35.48	100.00	.71	100.00	**	**	**	**	34.36	100.00

TABLE 3.9.9

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Bench-Maji Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	3.81	54.98	**	**	**	**	.13	100.00	3.41	52.38
Teff	.53	7.65	**	**	**	**	-	-	.40	6.14
Barely	**	**	-	-	-	-	-	-	**	**
Wheat	**	**	-	-	-	-	**	**	-	-
Maize	1.14	16.45	**	**	.01	14.29	**	**	.91	13.98
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	**	**	-	-	-	-	-	-	**	**
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.64	9.24	-	-	-	-	-	-	.64	9.83
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	.40	5.77	-	-	-	-	-	-	.40	6.14
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	4.93	71.14	**	**	**	**	.13	100.00	4.52	69.43
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	**	**	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	**	**	-	-	-	-	-	-	**	**
ALL CROPS	6.93	100.00	**	**	**	**	.13	100.00	6.51	100.00

TABLE 3.9.10

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Yem Special Wereda Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	3.44	62.09	.80	91.95	**	**	.12	100.00	2.46	54.79
Teff	1.04	18.77	.64	73.56	**	**	.05	41.67	.30	6.68
Barely	.30	5.42	.01	1.15	-	-	-	-	.28	6.24
Wheat	.39	7.04	**	**	-	-	**	**	.34	7.57
Maize	1.24	22.38	**	**	**	**	.06	50.00	1.08	24.05
Sorghum	.46	8.30	**	**	-	-	-	-	.45	10.02
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	-	-	-	-	-	-	**	**
PULSES	.50	9.03	.05	5.75	-	-	-	-	.44	9.80
Horse Beans	.26	4.69	**	**	-	-	-	-	.24	5.35
Field Peas	.21	3.79	**	**	-	-	-	-	.18	4.01
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	.03	.54	**	**	-	-	-	-	.02	.45
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.31	5.60	**	**	-	-	-	-	.30	6.68
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Vegetables	**	**	**	**	-	-	-	-	.28	6.24
ALL TEMPORARY	4.26	76.90	.87	100.00	**	**	.12	100.00	3.21	71.49
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	.47	8.48	-	-	-	-	-	-	.47	10.47
Enset	.59	10.65	-	-	-	-	-	-	.59	13.14
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	1.28	23.10	-	-	-	-	-	-	1.28	28.51
ALL CROPS	5.54	100.00	.87	100.00	**	**	.12	100.00	4.49	100.00

TABLE 3.9.11 ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Amaro Special Wereda Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	2.64	78.57	**	**	**	**	.15	100.00	2.47	77.43
Teff	1.47	43.75	**	**	-	-	**	**	1.35	42.32
Barely	.51	15.18	-	-	-	-	-	-	.50	15.67
Wheat	**	**	-	-	**	**	**	**	**	**
Maize	**	**	-	-	-	-	**	**	**	**
Sorghum	**	**	-	-	-	-	-	-	**	**
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.40	11.90	-	-	-	-	-	-	.40	12.54
Horse Beans	**	**	-	-	-	-	-	-	**	**
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	.16	4.76	-	-	-	-	-	-	.16	5.02
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	3.04	90.48	**	**	**	**	.15	100.00	2.87	89.97
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	.18	5.36	-	-	-	-	-	-	.18	5.64
Enset	**	**	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	.32	9.52	-	-	-	-	-	-	.32	10.03
ALL CROPS	3.36	100.00	**	**	**	**	.15	100.00	3.19	100.00



TABLE 3.9.12

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Burji Special Wereda Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	1.34	76.14	.02	100.00	-	-	-	-	1.32	75.86
Teff	.31	17.61	**	**	-	-	-	-	.30	17.24
Barely	.19	10.80	-	-	-	-	-	-	.19	10.92
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	.25	14.20	-	-	-	-	-	-	.25	14.37
Sorghum	.27	15.34	**	**	-	-	-	-	.26	14.94
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.35	19.89	-	-	-	-	-	-	.35	20.11
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.30	17.05	-	-	-	-	-	-	.30	17.24
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	1.70	96.59	.02	100.00	-	-	-	-	1.68	96.55
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	.02	1.14	-	-	-	-	-	-	.02	1.15
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	.06	3.41	-	-	-	-	-	-	.06	3.45
ALL CROPS	1.76	100.00	.02	100.00	-	-	-	-	1.74	100.00

TABLE 3.9.13

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Konso Special Wereda Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	5.21	86.40	-	-	**	**	-	-	5.15	86.55
Teff	.91	15.09	-	-	-	-	-	-	.91	15.29
Barely	.18	2.99	-	-	-	-	-	-	.18	3.03
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	1.44	23.88	-	-	-	-	-	-	1.43	24.03
Sorghum	2.63	43.62	-	-	**	**	-	-	2.58	43.36
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.22	3.65	-	-	-	-	-	-	.22	3.70
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	.14	2.32	-	-	-	-	-	-	.14	2.35
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	**	**	-	-	-	-	-	-	**	**
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.24	3.98	-	-	-	-	-	-	.23	3.87
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	-	-	**	**
Other Vegetables	.19	3.15	-	-	-	-	-	-	.18	3.03
ALL TEMPORARY	5.69	94.36	-	-	**	**	-	-	5.62	94.45
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	**	**	-	-	-	-	-	-	**	**
Tobaco	-	-	-	-	-	-	-	-	-	-
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	.34	5.64	-	-	-	-	-	-	.33	5.55
ALL CROPS	6.03	100.00	-	-	**	**	-	-	5.95	100.00

TABLE 3.9.14

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Derashe Special Wereda Zone

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	3.70	85.45	-	-	-	-	-	-	3.70	85.45
Teff	.60	13.86	-	-	-	-	-	-	.60	13.86
Barely	.20	4.62	-	-	-	-	-	-	.20	4.62
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	.74	17.09	-	-	-	-	-	-	.74	17.09
Sorghum	2.13	49.19	-	-	-	-	-	-	2.13	49.19
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	.18	4.16	-	-	-	-	-	-	.18	4.16
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	-	-	-	-	-	-	**	**
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.29	6.70	-	-	-	-	-	-	.29	6.70
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.29	6.70	-	-	-	-	-	-	.29	6.70
ALL TEMPORARY	4.17	96.30	-	-	-	-	-	-	4.17	96.30
Chat	**	**	-	-	-	-	-	-	**	**
Coffee	.13	3.00	-	-	-	-	-	-	.13	3.00
Enset	**	**	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.16	3.70	-	-	-	-	-	-	.16	3.70
ALL CROPS	4.33	100.00	-	-	-	-	-	-	4.33	100.00

TABLE 3.10

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Gambela

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	1.32	80.49	.02	100.00	-	-	-	-	1.29	80.12
Teff	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Maize	.97	59.15	.02	100.00	-	-	-	-	.94	58.39
Sorghum	.35	21.34	-	-	-	-	-	-	.35	21.74
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.15	9.15	-	-	-	-	-	-	.15	9.32
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	**	**	-	-	-	-	-	-	**	**
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	**	**	-	-	-	-	-	-	**	**
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.09	5.49	-	-	-	-	-	-	.09	5.59
Fenugreek	**	**	-	-	-	-	-	-	**	**
Spices	**	**	-	-	-	-	-	-	**	**
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	1.56	95.12	.02	100.00	-	-	-	-	1.53	95.03
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	**	**	-	-	-	-	-	-	**	**
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	.08	4.88	-	-	-	-	-	-	.08	4.97
ALL CROPS	1.64	100.00	.02	100.00	-	-	-	-	1.61	100.00

TABLE 3.11

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Harari

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	1.80	62.72	.05	83.33	.35	64.81	.61	75.31	.78	54.93
Teff	-	-	-	-	-	-	-	-	-	-
Barely	**	**	**	**	**	**	.01	1.23	-	-
Wheat	.16	5.57	-	-	-	**	.09	11.11	.05	3.52
Maize	.65	22.65	**	**	.10	18.52	.18	22.22	.34	23.94
Sorghum	.92	32.06	.01	16.67	.20	37.04	.33	40.74	.38	26.76
Millet	-	-	-	-	-	-	-	-	-	-
Oats	**	**	**	**	-	-	-	-	**	**
PULSES	**	**	-	-	**	**	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	**	**	-	-	**	**	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	.09	3.14	-	-	.01	1.85	-	-	.08	5.63
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	.09	3.14	-	-	.01	1.85	-	-	.08	5.63
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.10	3.48	-	-	**	**	**	**	.05	3.52
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	**	**	-	-	-	-	**	**	-	-
Other Vegetables	.08	2.79	-	-	**	**	.01	1.23	.05	3.52
ALL TEMPORARY	2.01	70.03	.05	83.33	.39	72.22	.63	77.78	.91	64.08
Chat	.78	27.18	.01	16.67	.15	27.78	.18	22.22	.44	30.99
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	**	**	-	-	-	-	-	-	**	**
Fruits	**	**	-	-	-	-	-	-	**	**
Other Permanent	**	**	-	-	-	-	-	-	**	**
TOTAL PERMANENT	.86	29.97	.01	16.67	.15	27.78	.18	22.22	.51	35.92
ALL CROPS	2.87	100.00	.06	100.00	.54	100.00	.81	100.00	1.42	100.00

TABLE 3.12

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Addis Ababa

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	.90	71.43	.01	7.14	.01	100.00	.75	89.29	.12	48.00
Teff	.45	35.71	-	-	-	-	.44	52.38	-	-
Barely	.02	1.59	-	-	-	-	-	-	.02	8.00
Wheat	.37	29.37	.01	7.14	**	**	.31	36.90	**	**
Maize	.06	4.76	-	-	-	-	-	-	.06	24.00
Sorghum	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	**	**	**	**	-	-	-	-	.10	40.00
Horse Beans	**	**	-	-	-	-	-	-	.05	20.00
Field Peas	**	**	-	-	-	-	-	-	**	**
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	**	**	**	**	-	-	-	-	-	-
Lentils	**	**	-	-	-	-	-	-	**	**
Vetch	**	**	**	**	-	-	-	-	**	**
OILSEEDS	**	**	-	-	-	-	-	-	.01	4.00
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	**	**	-	-	-	-	-	-	**	**
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	.15	11.90	**	**	-	-	.09	10.71	.02	8.00
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	.15	11.90	**	**	-	-	.09	10.71	.02	8.00
ALL TEMPORARY	1.26	100.00	.14	100.00	.01	100.00	.84	100.00	.25	100.00
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-
ALL CROPS	1.26	100.00	.14	100.00	.01	100.00	.84	100.00	.25	100.00

TABLE 3.13

ESTIMATES OF QUANTITY OF COMMERCIAL FERTILIZER BY TYPE  
OF FERTILIZER FOR MEHER SEASON CROPS OF PRIVATE HOLDINGS IN  
1999/2000(1992 E.C.)

Dire Dawa

('000 QT)

TYPE OF CROP	TOTAL		DAP		UREA		DAP + UREA		COMM W/NAT	
	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%	QUANTITY	%
CEREALS	1.70	72.34	-	-	-	-	**	**	1.68	72.10
Teff	-	-	-	-	-	-	-	-	-	-
Barely	**	**	-	-	-	-	-	-	**	**
Wheat	**	**	-	-	-	-	-	-	**	**
Maize	.05	2.13	-	-	-	-	-	-	.05	2.15
Sorghum	1.63	69.36	-	-	-	-	**	**	1.61	69.10
Millet	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-
PULSES	**	**	-	-	-	-	-	-	**	**
Horse Beans	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-
Haricot Beans	**	**	-	-	-	-	-	-	**	**
Chick Peas	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-
OTHERS	**	**	-	-	-	-	-	-	**	**
Fenugreek	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-
Other Vegetables	**	**	-	-	-	-	-	-	**	**
ALL TEMPORARY	1.76	74.89	-	-	-	-	**	**	1.74	74.68
Chat	.57	24.26	-	-	-	-	-	-	.57	24.46
Coffee	**	**	-	-	-	-	-	-	**	**
Enset	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	.59	25.11	-	-	-	-	-	-	.59	25.32
ALL CROPS	2.35	100.00	-	-	-	-	.01	100.00	2.33	100.00





#### **4. QUANTITY OF LOCAL AND IMPROVED SEEDS USED BY TYPE OF CROP**

The total quantity of local and improved seeds used by the private peasant holders during 1999/2000 (1992 E.C) agricultural year Meher season was estimated to be about 5.89 million quintals, of which 166.73 thousand quintals was improved seeds of major crops. This result indicates that of the total quantity of seeds used, only 2.83 % was improved seeds, while the remaining 97.17% was local seeds. Hence, the use of improved seeds by private peasant holders is negligible and the reason for this observation needs further investigation.

**Summary Table D. Quantity of Local and Improved Seeds Applied**

Seed type	Quantity ('000qt)	Percent
Local seeds	5723.36	97.17
Improved seeds	166.73	2.83
Total	5890.09	100.00

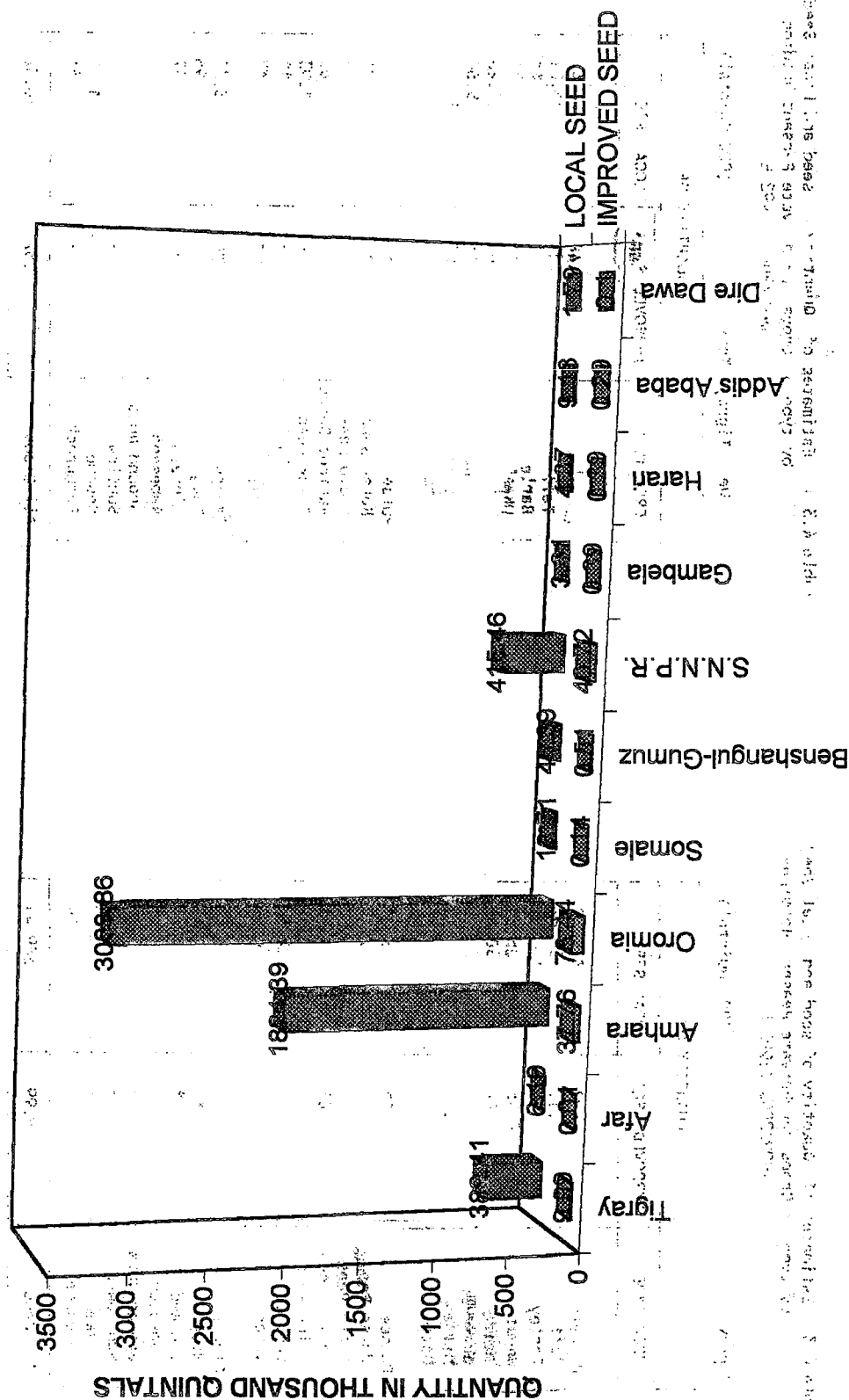
Table 4.1 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

National		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	162.98	4,630.07
Teff	10.58	1,023.86
Barley	.79	1,176.45
Wheat	**	1,417.70
Maize	59.19	562.45
Sorghum	1.48	248.85
Millet	.19	135.83
Oats	-	64.93
Pulses	3.04	985.83
Horse Beans	1.17	432.45
Field Peas	.72	158.31
Haricot Beans	.16	106.31
Chick Peas	**	147.06
Lentils	-	42.58
Vetch	**	99.12
Others	.71	107.46
Neug	.08	41.18
Linseed	.61	38.92
Rapeseed	**	6.56
Ground Nuts	-	8.11
Sunflower	-	.60
Sesame	-	4.18
Fenugreek	-	7.91
All Crops	166.73	5,723.36

Table 4.2 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

National		'(000 Quintal)
REGION	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
TIGRAY	9.99	389.41
AFAR	**	6.19
AMHARA	37.76	1,824.39
ROMIYA	76.44	3,003.86
SOMALE	.14	18.71
BENS.GUMEZ	.51	46.39
S.N.N.P.R.	40.72	415.46
GAMBELA	**	3.61
HARARI	.39	4.37
ADDIS ABABA	.29	9.13
DIRE DAWA	.10	1.79
All Crops	166.73	5,723.36

**FIG. 5 ESTIMATES OF QUANTITY OF SEED BY TYPE OF SEED,  
BY REGION, 1999/2000(1992 E.C.)**



■ IMPROVED SEED ■ LOCAL SEED

Table 4.3 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Tigray '(000 Quintal)

CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	9.92	339.68
Teff	1.11	56.62
Barley	-	114.59
Wheat	8.56	86.55
Maize	.02	30.61
Sorghum	**	25.97
Millet	.07	24.93
Oats	-	**
Pulses	**	43.01
Horse Beans	**	17.19
Field Peas	-	7.01
Haricot Beans	.01	.73
Chick Peas	-	9.72
Lentils	-	2.32
Vetch	-	6.04
Others	**	6.72
Neug	**	1.65
Linseed	**	3.02
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	.01
Sesame	-	1.90
Fenugreek	-	.14
All Crops	9.99	389.41

Table 4.3.1 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

West Tigray Zone '(000 Quintal)

CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	.46	68.69
Teff	.21	16.81
Barley	-	**
Wheat	**	.71
Maize	.02	15.20
Sorghum	**	15.60
Millet	.07	18.89
Oats	-	-
Pulses	**	4.32
Horse Beans	**	**
Field Peas	-	**
Haricot Beans	-	.06
Chick Peas	-	1.93
Lentils	-	**
Vetch	-	**
Others	**	3.31
Neug	**	.96
Linseed	**	.47
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	1.82
Fenugreek	-	**
All Crops	.52	76.32

Table 4.3.2 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Central Tigray Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	1.06	88.67
Teff	.47	23.14
Barley	-	23.42
Wheat	**	18.86
Maize	-	9.45
Sorghum	-	7.91
Millet	-	5.89
Oats	-	-
Pulses	-	10.63
Horse Beans	-	5.89
Field Peas	-	.49
Haricot Beans	-	.50
Chick Peas	-	2.82
Lentils	-	.25
Vetch	-	**
Others	-	1.62
Neug	-	.67
Linseed	-	.88
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	**
Fenugreek	-	**
All Crops	1.06	100.92

Table 4.3.3 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

East Tigray Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	4.15	84.62
Teff	**	2.87
Barley	-	47.66
Wheat	4.14	32.42
Maize	-	1.33
Sorghum	-	**
Millet	-	**
Oats	-	**
Pulses	-	16.06
Horse Beans	-	5.56
Field Peas	-	2.42
Haricot Beans	-	**
Chick Peas	-	3.55
Lentils	-	.84
Vetch	-	3.68
Others	-	1.27
Neug	-	-
Linseed	-	1.24
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	.03
All Crops	4.15	101.95

Table 4.3.4 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

South Tigray Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	4.26	97.68	
Teff	**	13.79	
Barley	-	42.03	
Wheat	3.83	34.56	
Maize	-	4.63	
Sorghum	**	2.41	
Millet	-	**	
Oats	-	**	
Pulses	**	12.01	
Horse Beans	-	3.85	
Field Peas	-	3.72	
Haricot Beans	**	**	
Chick Peas	-	1.43	
Lentils	-	1.20	
Vetch	-	1.65	
Others	-	.51	
Neug	-	**	
Linseed	-	.43	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	**	
Sesame	-	**	
Fenugreek	-	**	
All Crops	4.27	110.20	

Table 4.4 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Afar		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	**	5.72	
Teff	-	2.50	
Barley	-	**	
Wheat	-	**	
Maize	**	2.31	
Sorghum	-	.51	
Millet	-	-	
Oats	-	-	
Pulses	-	.45	
Horse Beans	-	-	
Field Peas	-	-	
Haricot Beans	-	.24	
Chick Peas	-	.21	
Lentils	-	-	
Vetch	-	-	
Others	-	.02	
Neug	-	-	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	.01	
Sesame	-	.01	
Fenugreek	-	-	
All Crops	**	6.19	

Table 4.4.1 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Zone 1 Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	-	1.76	
Teff	-	-	
Barley	-	-	
Wheat	-	-	
Maize	-	1.69	
Sorghum	-	**	
Millet	-	-	
Oats	-	-	
Pulses	-	-	
Horse Beans	-	-	
Field Peas	-	-	
Haricot Beans	-	-	
Chick Peas	-	-	
Lentils	-	-	
Vetch	-	-	
Others	-	-	
Neug	-	-	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	-	
All Crops	-	1.76	

Table 4.4.2 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Zone 3 Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	**	3.65	
Teff	-	2.34	
Barley	-	**	
Wheat	-	**	
Maize	**	.48	
Sorghum	-	.43	
Millet	-	-	
Oats	-	-	
Pulses	-	.45	
Horse Beans	-	-	
Field Peas	-	-	
Haricot Beans	-	.24	
Chick Peas	-	.21	
Lentils	-	-	
Vetch	-	-	
Others	-	.02	
Neug	-	-	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	.01	
Sesame	-	.01	
Fenugreek	-	-	
All Crops	**	4.12	

Table 4.5 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Amhara		(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	37.76	1,342.82
Teff	3.79	386.87
Barley	-	351.93
Wheat	20.65	318.32
Maize	13.30	104.87
Sorghum	**	81.35
Millet	-	82.13
Oats	-	17.35
Pulses	-	442.31
Horse Beans	-	189.90
Field Peas	-	61.67
Haricot Beans	-	32.06
Chick Peas	-	79.47
Lentils	-	25.28
Vetch	-	53.93
Others	-	39.26
Neug	-	22.62
Linseed	-	7.96
Rapeseed	-	2.39
Ground Nuts	-	**
Sunflower	-	.48
Sesame	-	**
Fenugreek	-	4.15
All Crops	37.76	1,824.39



Table 4.5.1 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

North Gonder Zone		'(000 Quintal)
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	4.20	178.23
Teff	.70	45.02
Barley	-	36.72
Wheat	**	20.26
Maize	.98	14.39
Sorghum	-	43.65
Millet	-	17.30
Oats	-	**
Pulses	-	36.21
Horse Beans	-	15.96
Field Peas	-	7.18
Haricot Beans	-	**
Chick Peas	-	10.74
Lentils	-	.53
Vetch	-	.78
Others	-	8.62
Neug	-	5.49
Linseed	-	.95
Rapeseed	-	**
Ground Nuts	-	-
Sunflower	-	**
Sesame	-	**
Fenugreek	-	.42
All Crops	4.20	223.06

Table 4.5.2 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

South Gonder Zone		'(000 Quintal)
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	2.49	217.36
Teff	.45	65.26
Barley	-	80.25
Wheat	**	40.73
Maize	**	14.67
Sorghum	-	**
Millet	-	13.37
Oats	-	**
Pulses	-	62.67
Horse Beans	-	28.51
Field Peas	-	6.16
Haricot Beans	-	**
Chick Peas	-	15.06
Lentils	-	1.90
Vetch	-	5.66
Others	-	7.23
Neug	-	4.07
Linseed	-	2.74
Rapeseed	-	**
Ground Nuts	-	-
Sunflower	-	**
Sesame	-	-
Fenugreek	-	**
All Crops	2.49	287.26

Table 4.5.3 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

North Wolo Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	2.00	97.16	
Teff	.07	20.17	
Barley	-	34.06	
Wheat	1.93	33.21	
Maize	-	3.56	
Sorghum	-	4.47	
Millet	-	.16	
Oats	-	1.53	
Pulses	-	38.71	
Horse Beans	-	17.66	
Field Peas	-	5.65	
Haricot Beans	-	**	
Chick Peas	-	5.88	
Lentils	-	5.57	
Vetch	-	3.49	
Others	-	1.45	
Neug	-	.06	
Linseed	-	.67	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	**	
Sesame	-	-	
Fenugreek	-	.67	
All Crops	2.00	137.32	

Table 4.5.4 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

South Wolo Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	5.25	131.41	
Teff	.16	22.96	
Barley	-	28.54	
Wheat	5.09	54.97	
Maize	-	7.07	
Sorghum	-	5.40	
Millet	-	**	
Oats	-	12.33	
Pulses	-	92.52	
Horse Beans	-	46.18	
Field Peas	-	14.97	
Haricot Beans	-	**	
Chick Peas	-	9.89	
Lentils	-	4.93	
Vetch	-	11.47	
Others	-	2.86	
Neug	-	.45	
Linseed	-	.18	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	**	
Sesame	-	**	
Fenugreek	-	2.21	
All Crops	5.25	226.79	

Table 4.5.5 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

North Shewa Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	**	160.41
Teff	**	35.24
Barley	-	37.85
Wheat	**	77.16
Maize	-	2.72
Sorghum	-	6.79
Millet	-	-
Oats	-	**
Pulses	-	72.03
Horse Beans	-	30.92
Field Peas	-	6.72
Haricot Beans	-	2.31
Chick Peas	-	14.24
Lentils	-	10.06
Vetch	-	**
Others	-	1.15
Neug	-	.30
Linseed	-	.42
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	.05
Sesame	-	**
Fenugreek	-	.35
All Crops	**	233.59

Table 4.5.6 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

East Gojam Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	11.06	247.09
Teff	1.67	94.51
Barley	-	65.73
Wheat	7.27	67.50
Maize	2.12	14.87
Sorghum	-	4.05
Millet	-	**
Oats	-	-
Pulses	-	89.06
Horse Beans	-	26.99
Field Peas	-	9.88
Haricot Beans	-	**
Chick Peas	-	19.01
Lentils	-	**
Vetch	-	20.95
Others	-	4.10
Neug	-	1.88
Linseed	-	1.26
Rapeseed	-	.65
Ground Nuts	-	-
Sunflower	-	**
Sesame	-	-
Fenugreek	-	.30
All Crops	11.06	340.25

Table 4.5.7 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

West Gojam Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	9.15	159.64
Teff	.58	63.50
Barley	-	23.35
Wheat	-	11.89
Maize	8.57	30.28
Sorghum	-	3.37
Millet	-	26.46
Oats	-	**
Pulses	-	32.38
Horse Beans	-	12.52
Field Peas	-	7.64
Haricot Beans	-	**
Chick Peas	-	3.50
Lentils	-	**
Vetch	-	**
Others	-	7.52
Neug	-	5.56
Linseed	-	1.11
Rapeseed	-	.81
Ground Nuts	-	-
Sunflower	-	**
Sesame	-	-
Fenugreek	-	**
All Crops	9.15	199.54

Table 4.5.8 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Waghamera Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	**	39.06
Teff	**	6.86
Barley	-	18.37
Wheat	**	8.44
Maize	-	.78
Sorghum	-	4.59
Millet	-	**
Oats	-	-
Pulses	-	12.30
Horse Beans	-	8.36
Field Peas	-	1.05
Haricot Beans	-	1.50
Chick Peas	-	.26
Lentils	-	1.13
Vetch	-	-
Others	-	.67
Neug	-	.08
Linseed	-	.24
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	.17
Sesame	-	**
Fenugreek	-	-
All Crops	**	52.03

Table 4.5.9 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Agewawia Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	1.36	98.23
Teff	-	30.11
Barley	-	26.60
Wheat	**	3.64
Maize	1.18	10.90
Sorghum	-	**
Millet	-	24.19
Oats	-	.32
Pulses	-	5.21
Horse Beans	-	**
Field Peas	-	2.19
Haricot Beans	-	**
Chick Peas	-	**
Lentils	-	-
Vetch	-	-
Others	-	5.56
Neug	-	4.73
Linseed	-	**
Rapeseed	-	.15
Ground Nuts	-	**
Sunflower	-	-
Sesame	-	**
Fenugreek	-	.02
All Crops	1.36	109.00

Table 4.5.10 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Oromia Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	**	14.18
Teff	.03	3.24
Barley	-	.45
Wheat	-	.50
Maize	**	5.62
Sorghum	**	3.66
Millet	-	**
Oats	-	**
Pulses	-	1.23
Horse Beans	-	.52
Field Peas	-	.23
Haricot Beans	-	.16
Chick Peas	-	**
Lentils	-	**
Vetch	-	-
Others	-	.07
Neug	-	-
Linseed	-	**
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	**
Sesame	-	.05
Fenugreek	-	-
All Crops	**	15.48

Table 4.6 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Oromia		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	73.27	2,526.58	
Teff	2.91	488.85	
Barley	**	631.92	
Wheat	44.40	910.86	
Maize	24.53	328.27	
Sorghum	.58	99.29	
Millet	**	20.62	
Oats	-	46.77	
Pulses	2.51	421.07	
Horse Beans	**	193.25	
Field Peas	.71	69.53	
Haricot Beans	.09	52.63	
Chick Peas	**	53.43	
Lentils	-	14.53	
Vetch	**	37.70	
Others	.66	56.21	
Neug	**	15.01	
Linseed	.60	27.56	
Rapeseed	**	4.14	
Ground Nuts	-	5.84	
Sunflower	-	.06	
Sesame	-	.17	
Fenugreek	-	3.43	
All Crops	76.44	3,003.86	

Table 4.6.1 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

West Welega Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	5.15	87.05	
Teff	.15	16.29	
Barley	**	3.92	
Wheat	**	11.97	
Maize	4.39	27.21	
Sorghum	.24	15.87	
Millet	**	11.76	
Oats	-	**	
Pulses	**	14.44	
Horse Beans	-	6.54	
Field Peas	**	.87	
Haricot Beans	-	6.16	
Chick Peas	-	**	
Lentils	-	-	
Vetch	-	**	
Others	**	1.75	
Neug	**	1.71	
Linseed	-	**	
Rapeseed	-	**	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	.01	
Fenugreek	-	-	
All Crops	5.20	103.24	

Table 4.6.2 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

East Welega Zone		(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	9.69	158.75
Teff	-	64.82
Barley	-	27.18
Wheat	**	25.81
Maize	4.79	28.60
Sorghum	-	5.76
Millet	-	6.31
Oats	-	**
Pulses	-	19.81
Horse Beans	-	14.01
Field Peas	-	5.44
Haricot Beans	-	**
Chick Peas	-	**
Lentils	-	**
Vetch	-	-
Others	-	8.20
Neug	-	7.26
Linseed	-	**
Rapeseed	-	.21
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	**
Fenugreek	-	.07
All Crops	9.69	186.76

Table 4.6.3 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Illibabor Zone		(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	3.72	53.15
Teff	-	20.42
Barley	**	1.07
Wheat	**	.52
Maize	3.64	24.25
Sorghum	-	5.68
Millet	-	1.20
Oats	-	**
Pulses	-	7.30
Horse Beans	-	3.14
Field Peas	-	1.79
Haricot Beans	-	2.18
Chick Peas	-	.02
Lentils	-	-
Vetch	-	**
Others	-	.40
Neug	-	.37
Linseed	-	**
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	.01
All Crops	3.72	60.85

Table 4.6.4 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Jimma Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	3.87	152.61	
Teff	-	68.58	
Barley	-	17.22	
Wheat	-	17.71	
Maize	3.87	39.37	
Sorghum	-	7.97	
Millet	-	**	
Oats	-	1.07	
Pulses	**	16.58	
Horse Beans	-	11.65	
Field Peas	-	3.39	
Haricot Beans	**	1.15	
Chick Peas	-	**	
Lentils	-	**	
Vetch	-	-	
Others	-	**	
Neug	-	**	
Linseed	-	**	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	**	
All Crops	3.89	170.30	

Table 4.6.5 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

West Shewa Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	10.01	388.83	
Teff	**	133.58	
Barley	**	96.22	
Wheat	6.01	132.47	
Maize	**	19.96	
Sorghum	-	**	
Millet	-	-	
Oats	-	**	
Pulses	**	84.91	
Horse Beans	-	32.31	
Field Peas	-	7.87	
Haricot Beans	-	**	
Chick Peas	**	24.41	
Lentils	-	2.34	
Vetch	-	**	
Others	**	7.99	
Neug	-	2.62	
Linseed	-	3.17	
Rapeseed	**	**	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	.56	
All Crops	10.56	481.73	



Table 4.6.6 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

North Shewa Zone		'(000 Quintal)
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	6.12	194.81
Teff	.25	42.24
Barley	**	62.70
Wheat	5.68	80.36
Maize	-	2.31
Sorghum	**	5.28
Millet	-	-
Oats	-	1.92
Pulses	1.40	74.39
Horse Beans	**	35.67
Field Peas	**	11.36
Haricot Beans	-	**
Chick Peas	-	9.54
Lentils	-	7.08
Vetch	**	10.67
Others	-	3.06
Neug	-	1.31
Linseed	-	1.10
Rapeseed	-	**
Ground Nuts	-	-
Sunflower	-	**
Sesame	-	-
Fenugreek	-	.59
All Crops	7.52	272.26

Table 4.6.7 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

East Shewa Zone		'(000 Quintal)
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	10.77	242.61
Teff	-	68.43
Barley	-	20.40
Wheat	8.60	97.05
Maize	2.17	54.28
Sorghum	-	2.00
Millet	-	.21
Oats	-	**
Pulses	**	62.94
Horse Beans	-	7.15
Field Peas	**	6.09
Haricot Beans	-	23.92
Chick Peas	-	**
Lentils	-	3.25
Vetch	-	5.64
Others	-	1.12
Neug	-	-
Linseed	-	.08
Rapeseed	-	.08
Ground Nuts	-	-
Sunflower	-	**
Sesame	-	**
Fenugreek	-	**
All Crops	11.18	306.67

Table 4.6.8 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Arsi Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	9.32	737.60	
Teff	-	55.56	
Barley	-	269.65	
Wheat	9.32	346.64	
Maize	-	54.62	
Sorghum	-	4.12	
Millet	-	**	
Oats	-	**	
Pulses	-	101.92	
Horse Beans	-	64.93	
Field Peas	-	25.98	
Haricot Beans	-	**	
Chick Peas	-	**	
Lentils	-	.49	
Vetch	-	**	
Others	**	21.78	
Neug	-	**	
Linseed	**	18.62	
Rapeseed	-	**	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	.19	
All Crops	9.75	861.30	

Table 4.6.9 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

West Harerge Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	2.60	58.24	
Teff	**	2.09	
Barley	-	6.07	
Wheat	**	**	
Maize	1.67	29.83	
Sorghum	**	17.98	
Millet	-	.35	
Oats	-	.67	
Pulses	.15	10.66	
Horse Beans	-	4.66	
Field Peas	-	.77	
Haricot Beans	**	4.51	
Chick Peas	**	.51	
Lentils	-	.19	
Vetch	-	**	
Others	-	.49	
Neug	-	-	
Linseed	-	.13	
Rapeseed	-	-	
Ground Nuts	-	**	
Sunflower	-	**	
Sesame	-	.03	
Fenugreek	-	.24	
All Crops	2.75	69.39	

Table 4.6.10 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

East Harerge Zone		'(000 Quintal)
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	6.79	80.86
Teff	**	1.70
Barley	**	7.62
Wheat	**	10.65
Maize	**	30.05
Sorghum	.27	28.73
Millet	-	-
Oats	-	**
Pulses	**	12.27
Horse Beans	-	**
Field Peas	-	**
Haricot Beans	-	3.21
Chick Peas	**	**
Lentils	-	**
Vetch	-	-
Others	-	5.96
Neug	-	-
Linseed	-	.03
Rapeseed	-	-
Ground Nuts	-	5.76
Sunflower	-	-
Sesame	-	**
Fenugreek	-	.15
All Crops	6.80	99.09

Table 4.6.11 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Bale Zone		'(000 Quintal)
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	4.59	347.11
Teff	.16	11.95
Barley	-	109.06
Wheat	4.43	184.11
Maize	-	9.38
Sorghum	-	1.26
Millet	-	-
Oats	-	31.35
Pulses	-	14.61
Horse Beans	-	4.54
Field Peas	-	5.01
Haricot Beans	-	.16
Chick Peas	-	**
Lentils	-	.72
Vetch	-	**
Others	**	4.33
Neug	-	**
Linseed	**	3.62
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	.70
All Crops	4.76	366.05

Table 4.6.12 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Borena Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	**	24.94
Teff	**	3.19
Barley	-	10.80
Wheat	-	**
Maize	**	8.42
Sorghum	-	**
Millet	-	-
Oats	-	-
Pulses	-	1.23
Horse Beans	-	.54
Field Peas	-	**
Haricot Beans	-	.42
Chick Peas	-	**
Lentils	-	-
Vetch	-	-
Others	-	**
Neug	-	-
Linseed	-	-
Rapeseed	-	**
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	-
All Crops	**	26.19

Table 4.7 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Somale		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	.13	18.17
Teff	-	**
Barley	-	2.86
Wheat	-	1.85
Maize	.10	8.22
Sorghum	.03	5.10
Millet	-	-
Oats	-	**
Pulses	**	.30
Horse Beans	-	-
Field Peas	-	-
Haricot Beans	**	.18
Chick Peas	-	.07
Lentils	-	-
Vetch	-	**
Others	-	**
Neug	-	-
Linseed	-	.01
Rapeseed	-	-
Ground Nuts	-	**
Sunflower	-	-
Sesame	-	-
Fenugreek	-	**
All Crops	.14	18.71

Table 4.7.1 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Shinele Zone		'(000 Quintal)	
	QUANTITY OF		
CROP TYPE	IMPROVED SEED	LOCAL SEED	
Cereals	**	.10	
Teff	-	-	
Barley	-	-	
Wheat	-	-	
Maize	-	.04	
Sorghum	**	.06	
Millet	-	-	
Oats	-	-	
Pulses	-	-	
Horse Beans	-	-	
Field Peas	-	-	
Haricot Beans	-	-	
Chick Peas	-	-	
Lentils	-	-	
Vetch	-	-	
Others	-	-	
Neug	-	-	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	-	
All Crops	**	.10	

Table 4.7.2 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Jijiga Zone		'(000 Quintal)	
	QUANTITY OF		
CROP TYPE	IMPROVED SEED	LOCAL SEED	
Cereals	.11	17.28	
Teff	-	**	
Barley	-	2.86	
Wheat	-	1.85	
Maize	.09	7.40	
Sorghum	**	5.03	
Millet	-	-	
Oats	-	**	
Pulses	**	.21	
Horse Beans	-	-	
Field Peas	-	-	
Haricot Beans	**	.09	
Chick Peas	-	.07	
Lentils	-	-	
Vetch	-	**	
Others	-	**	
Neug	-	-	
Linseed	-	.01	
Rapeseed	-	-	
Ground Nuts	-	**	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	**	
All Crops	.12	17.73	

Table 4.7.3 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Moyale Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	-	.79	
Teff	-	-	
Barley	-	-	
Wheat	-	-	
Maize	-	.79	
Sorghum	-	-	
Millet	-	-	
Oats	-	-	
Pulses	-	**	
Horse Beans	-	-	
Field Peas	-	-	
Haricot Beans	-	**	
Chick Peas	-	-	
Lentils	-	-	
Vetch	-	-	
Others	-	-	
Neug	-	-	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	-	
All Crops	-	.88	

Table 4.8 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Benshangul-Gumuz		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	.51	39.25	
Teff	.02	9.56	
Barley	-	**	
Wheat	-	**	
Maize	.48	6.80	
Sorghum	.01	11.62	
Millet	-	6.82	
Oats	-	**	
Pulses	-	3.70	
Horse Beans	-	1.00	
Field Peas	-	**	
Haricot Beans	-	1.77	
Chick Peas	-	.09	
Lentils	-	**	
Vetch	-	-	
Others	-	3.44	
Neug	-	1.79	
Linseed	-	.04	
Rapeseed	-	**	
Ground Nuts	-	1.02	
Sunflower	-	-	
Sesame	-	.57	
Fenugreek	-	.01	
All Crops	.51	46.39	

Table 4.8.1 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Metekel Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	.31	27.72	
Teff	-	7.58	
Barley	-	**	
Wheat	-	**	
Maize	.31	2.65	
Sorghum	-	7.12	
Millet	-	6.07	
Oats	-	**	
Pulses	-	3.07	
Horse Beans	-	.69	
Field Peas	-	**	
Haricot Beans	-	**	
Chick Peas	-	**	
Lentils	-	**	
Vetch	-	-	
Others	-	1.78	
Neug	-	.80	
Linseed	-	**	
Rapeseed	-	**	
Ground Nuts	-	**	
Sunflower	-	-	
Sesame	-	.35	
Fenugreek	-	-	
All Crops	.31	32.57	

Table 4.8.2 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Asosa Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	.17	7.76	
Teff	.02	1.33	
Barley	-	**	
Wheat	-	**	
Maize	.14	2.58	
Sorghum	.01	3.47	
Millet	-	.22	
Oats	-	-	
Pulses	-	.18	
Horse Beans	-	**	
Field Peas	-	-	
Haricot Beans	-	**	
Chick Peas	-	**	
Lentils	-	-	
Vetch	-	-	
Others	-	1.40	
Neug	-	.81	
Linseed	-	.02	
Rapeseed	-	-	
Ground Nuts	-	.41	
Sunflower	-	-	
Sesame	-	.16	
Fenugreek	-	-	
All Crops	.17	9.34	

Table 4.8.3 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Kemeshi Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	**	**	
Teff	-	**	
Barley	-	-	
Wheat	-	-	
Maize	**	**	
Sorghum	-	1.04	
Millet	-	**	
Oats	-	-	
Pulses	-	**	
Horse Beans	-	**	
Field Peas	-	**	
Haricot Beans	-	**	
Chick Peas	-	**	
Lentils	-	-	
Vetch	-	-	
Others	-	**	
Neug	-	**	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	.01	
Sunflower	-	-	
Sesame	-	.06	
Fenugreek	-	.01	
All Crops	**	**	

Table 4.9 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

(S.N.N.P.R)		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	40.23	342.13	
Teff	2.70	76.55	
Barley	**	72.60	
Wheat	16.68	93.69	
Maize	20.28	77.91	
Sorghum	.50	19.94	
Millet	-	1.32	
Oats	-	.12	
Pulses	.49	72.76	
Horse Beans	.44	31.01	
Field Peas	.01	19.30	
Haricot Beans	.04	18.62	
Chick Peas	-	3.13	
Lentils	-	.31	
Vetch	-	**	
Others	-	.57	
Neug	-	**	
Linseed	-	**	
Rapeseed	-	.02	
Ground Nuts	-	**	
Sunflower	-	.04	
Sesame	-	**	
Fenugreek	-	**	
All Crops	40.72	415.46	



Table 4.9.1 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Gurage Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	12.03	85.58
Teff	**	14.93
Barley	**	32.41
Wheat	6.64	20.33
Maize	4.82	15.78
Sorghum	-	2.12
Millet	-	**
Oats	-	-
Pulses	**	21.48
Horse Beans	**	9.42
Field Peas	-	**
Haricot Beans	**	**
Chick Peas	-	**
Lentils	-	**
Vetch	-	**
Others	-	.35
Neug	-	**
Linseed	-	**
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	-
All Crops	12.13	107.41

Table 4.9.2 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Hadiya Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	9.95	75.46
Teff	1.48	8.99
Barley	-	5.45
Wheat	6.47	46.56
Maize	1.50	11.76
Sorghum	.50	2.45
Millet	-	**
Oats	-	**
Pulses	**	7.60
Horse Beans	**	4.56
Field Peas	-	2.08
Haricot Beans	-	.84
Chick Peas	-	**
Lentils	-	**
Vetch	-	-
Others	-	**
Neug	-	-
Linseed	-	**
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	-
All Crops	10.19	83.09

Table 4.9.3 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Kembata Alaba Tembaro Zone		'(000 Quintal)
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	3.56	40.24
Teff	.37	6.17
Barley	-	1.19
Wheat	**	16.62
Maize	2.36	14.36
Sorghum	-	.99
Millet	-	.90
Oats	-	.01
Pulses	-	3.62
Horse Beans	-	2.45
Field Peas	-	.25
Haricot Beans	-	.87
Chick Peas	-	**
Lentils	-	**
Vetch	-	-
Others	-	**
Neug	-	-
Linseed	-	.01
Rapeseed	-	**
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	**
All Crops	3.56	43.93

Table 4.9.4 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Sidama Zone		'(000 Quintal)
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	4.34	13.83
Teff	**	1.03
Barley	-	2.44
Wheat	**	**
Maize	4.12	9.81
Sorghum	-	**
Millet	-	-
Oats	-	-
Pulses	**	6.14
Horse Beans	-	.95
Field Peas	-	**
Haricot Beans	**	4.63
Chick Peas	-	**
Lentils	-	-
Vetch	-	-
Others	-	-
Neug	-	-
Linseed	-	-
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	-
All Crops	4.36	19.97

Table 4.9.5 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Gedio Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	.44	5.50	
Teff	-	**	
Barley	-	2.85	
Wheat	**	**	
Maize	.29	2.20	
Sorghum	-	-	
Millet	-	-	
Oats	-	-	
Pulses	-	1.60	
Horse Beans	-	1.04	
Field Peas	-	**	
Haricot Beans	-	.12	
Chick Peas	-	-	
Lentils	-	**	
Vetch	-	-	
Others	-	-	
Neug	-	-	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	-	
All Crops	.44	7.10	

Table 4.9.6 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

North Omo Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	7.37	52.84	
Teff	.16	21.14	
Barley	-	14.62	
Wheat	**	**	
Maize	6.36	10.30	
Sorghum	-	4.42	
Millet	-	**	
Oats	-	-	
Pulses	-	13.75	
Horse Beans	-	3.19	
Field Peas	-	**	
Haricot Beans	-	6.51	
Chick Peas	-	.25	
Lentils	-	-	
Vetch	-	-	
Others	-	**	
Neug	-	-	
Linseed	-	**	
Rapeseed	-	-	
Ground Nuts	-	**	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	-	
All Crops	7.37	66.63	

Table 4.9.7 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

South Omo Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	.29	8.46
Teff	-	.98
Barley	-	1.69
Wheat	**	**
Maize	.18	2.77
Sorghum	-	2.64
Millet	-	.04
Oats	-	-
Pulses	-	1.44
Horse Beans	-	.44
Field Peas	-	**
Haricot Beans	-	.70
Chick Peas	-	-
Lentils	-	-
Vetch	-	-
Others	-	.05
Neug	-	-
Linseed	-	-
Rapeseed	-	-
Ground Nuts	-	**
Sunflower	-	.03
Sesame	-	**
Fenugreek	-	-
All Crops	.29	9.95

Table 4.9.8 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Keficho-Shekicho Zone		'(000 Quintal)
CROP TYPE	QUANTITY OF	
	IMPROVED SEED	LOCAL SEED
Cereals	1.50	38.15
Teff	**	16.95
Barley	-	7.29
Wheat	1.23	**
Maize	.18	6.21
Sorghum	-	3.69
Millet	-	**
Oats	-	**
Pulses	-	12.38
Horse Beans	-	6.90
Field Peas	-	3.64
Haricot Beans	-	1.84
Chick Peas	-	-
Lentils	-	-
Vetch	-	-
Others	-	-
Neug	-	-
Linseed	-	-
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	-
All Crops	1.50	50.53

Table 4.9.9 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Bench-Maji Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	.41	6.94	
Teff	-	1.84	
Barley	-	1.77	
Wheat	**	**	
Maize	.38	2.00	
Sorghum	-	1.20	
Millet	-	**	
Oats	-	-	
Pulses	**	1.38	
Horse Beans	**	.75	
Field Peas	-	**	
Haricot Beans	-	.39	
Chick Peas	-	-	
Lentils	-	-	
Vetch	-	-	
Others	-	-	
Neug	-	-	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	-	
All Crops	.53	8.32	

Table 4.9.10 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Yem Special Wereda Zone		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	.30	6.65	
Teff	.02	2.36	
Barley	**	1.56	
Wheat	**	2.05	
Maize	.07	.54	
Sorghum	-	.13	
Millet	-	-	
Oats	-	.01	
Pulses	.01	1.71	
Horse Beans	-	1.17	
Field Peas	.01	.50	
Haricot Beans	-	-	
Chick Peas	-	-	
Lentils	-	.04	
Vetch	-	-	
Others	-	.01	
Neug	-	-	
Linseed	-	.01	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	-	
All Crops	.31	8.37	

Table 4.9.11 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Amaro Special Wereda Zone		'(000 Quintal)
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	.04	1.72
Teff	-	.75
Barley	-	.65
Wheat	**	.17
Maize	**	.10
Sorghum	-	**
Millet	-	-
Oats	-	-
Pulses	-	.44
Horse Beans	-	.11
Field Peas	-	.16
Haricot Beans	-	.11
Chick Peas	-	**
Lentils	-	.01
Vetch	-	-
Others	-	-
Neug	-	-
Linseed	-	-
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	-
All Crops	.04	2.16

Table 4.9.12 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Burji Special Wereda Zone		'(000 Quintal)
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	-	.91
Teff	-	.29
Barley	-	.18
Wheat	-	.26
Maize	-	.12
Sorghum	-	.06
Millet	-	-
Oats	-	-
Pulses	-	.36
Horse Beans	-	-
Field Peas	-	**
Haricot Beans	-	.32
Chick Peas	-	.03
Lentils	-	-
Vetch	-	-
Others	-	-
Neug	-	-
Linseed	-	-
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	-
All Crops	-	1.27

Table 4.9.13 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Konso Special Wereda Zone '(000 Quintal)		
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	**	3.40
Teff	-	.74
Barley	-	.04
Wheat	-	-
Maize	**	1.26
Sorghum	-	1.36
Millet	-	-
Oats	-	-
Pulses	-	.45
Horse Beans	-	-
Field Peas	-	-
Haricot Beans	-	.44
Chick Peas	-	.01
Lentils	-	-
Vetch	-	-
Others	-	-
Neug	-	-
Linseed	-	-
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	-
All Crops	**	3.85

Table 4.9.14 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Derashe Special Wereda Zone '(000 Quintal)		
	QUANTITY OF	
CROP TYPE	IMPROVED SEED	LOCAL SEED
Cereals	-	2.44
Teff	-	.30
Barley	-	.46
Wheat	-	.18
Maize	-	.69
Sorghum	-	.81
Millet	-	-
Oats	-	-
Pulses	-	.37
Horse Beans	-	**
Field Peas	-	**
Haricot Beans	-	.27
Chick Peas	-	.07
Lentils	-	-
Vetch	-	-
Others	-	-
Neug	-	-
Linseed	-	-
Rapeseed	-	-
Ground Nuts	-	-
Sunflower	-	-
Sesame	-	-
Fenugreek	-	-
All Crops	-	2.81

Table 4.10 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Gambela		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	**	3.54	
Teff	-	-	
Barley	-	**	
Wheat	-	-	
Maize	**	2.15	
Sorghum	.04	1.38	
Millet	-	-	
Oats	-	-	
Pulses	-	**	
Horse Beans	-	-	
Field Peas	-	-	
Haricot Beans	-	**	
Chick Peas	-	-	
Lentils	-	-	
Vetch	-	-	
Others	-	.06	
Neug	-	-	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	.01	
Sunflower	-	-	
Sesame	-	**	
Fenugreek	-	-	
All Crops	**	3.61	

Table 4.11 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Harari		'(000 Quintal)	
CROP TYPE	QUANTITY OF		
	IMPROVED SEED	LOCAL SEED	
Cereals	.39	3.48	
Teff	-	-	
Barley	-	.05	
Wheat	.23	.16	
Maize	.11	1.18	
Sorghum	.05	2.08	
Millet	-	-	
Oats	-	**	
Pulses	-	.02	
Horse Beans	-	-	
Field Peas	-	-	
Haricot Beans	-	.02	
Chick Peas	-	-	
Lentils	-	-	
Vetch	-	-	
Others	-	.87	
Neug	-	-	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	.87	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	-	
All Crops	.39	4.37	



Table 4.12 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Addis Ababa		'(000 Quintal)	
	QUANTITY OF		
CROP TYPE	IMPROVED SEED	LOCAL SEED	
Cereals	.29	6.92	
Teff	.06	2.87	
Barley	-	**	
Wheat	.23	3.82	
Maize	-	.02	
Sorghum	-	-	
Millet	-	-	
Oats	-	**	
Pulses	-	2.15	
Horse Beans	-	**	
Field Peas	-	.01	
Haricot Beans	-	-	
Chick Peas	-	.94	
Lentils	-	.09	
Vetch	-	1.00	
Others	-	.06	
Neug	-	-	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	.06	
All Crops	.29	9.13	

Table 4.13 Estimates of Quantity of seed and Local Seed  
by type of Crops for Private Peasant Holdings  
1999/2000 (1992 E.C.)

Dire Dawa		'(000 Quintal)	
	QUANTITY OF		
CROP TYPE	IMPROVED SEED	LOCAL SEED	
Cereals	.10	1.74	
Teff	-	-	
Barley	-	-	
Wheat	-	-	
Maize	.01	.12	
Sorghum	.09	1.62	
Millet	-	-	
Oats	-	-	
Pulses	-	.05	
Horse Beans	-	-	
Field Peas	-	-	
Haricot Beans	-	.05	
Chick Peas	-	-	
Lentils	-	-	
Vetch	-	-	
Others	-	-	
Neug	-	-	
Linseed	-	-	
Rapeseed	-	-	
Ground Nuts	-	-	
Sunflower	-	-	
Sesame	-	-	
Fenugreek	-	-	
All Crops	.10	1.79	



## **5. NUMBER OF HOLDERS APPLYING AGRICULTURAL INPUTS**

### **BY THEIR EDUCATIONAL ATTAINMENT**

The survey indicates that there were about 11.02 million holders at national level. Most of these holders (73.68%) were illiterate while 0.19% had attended higher education.

Of all holders 1.43%, 0.71%, 1.61%, and 20.28% applied improved seeds, used irrigation, applied pesticides and fertilizer during the 1999/2000 agricultural activities, respectively. Out of all holders who applied improved seeds, used irrigation, applied pesticides and fertilizers 60.05%, 70.58%, 69.77%, and 69.60% of them were illiterate in that order. For details, refer to Table 5.1

**Summary Table E. Number of Holders Applying Agricultural Inputs**

Type of inputs	Number of holders applying ('000)
Improved seeds	157.73
Irrigation	78.38
Pesticides	177.13
Fertilizer	2234.85

TABLE 5.1 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

National

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	8,118.16	73.68	94.72	60.05	55.32	70.58	123.58	69.77	1,555.37	69.60
GRADES 1 - 3	1,476.57	13.40	27.72	17.57	12.35	15.76	22.69	12.81	346.61	15.51
GRADES 4 - 6	884.53	8.03	19.97	12.66	6.51	8.31	19.15	10.81	205.69	9.20
GRADES 7 - 8	321.31	2.92	9.14	5.79	2.89	3.69	5.92	3.34	74.99	3.36
GRADES 9 - 11	145.78	1.32	**	**	**	**	3.55	2.00	35.03	1.57
GRADE 12 COMPLETE	51.37	.47	**	**	**	**	1.98	1.12	12.34	.55
HIGHER EDUCATION NOT STATED	20.72 .32	.19 -	** -	** -	** -	** -	** -	** -	4.81 -	.22 -
TOTAL	11,018.74	100.00	157.73	100.00	78.38	100.00	177.13	100.00	2,234.85	100.00

TABLE 5.2 NUMBER OF HOLDERS BY EDUCATIONAL ATTAINMENT AND REGION  
1999/2000(1992 E.C.)

NUMBER IN THOUSANDS ('000)

REGION	EDUCATIONAL ATTAINMENT IN GRADES							
	ILLITERATE	1 - 3	4 - 6	7 - 8	9 - 11	12 COMPLETE	HIGHER EDUCATION	TOTAL HOLDERS
TIGRAY	519.41	91.01	16.07	3.57	.91	-	.37	631.33
AFAR	33.38	1.72	.37	.18	.05	-	-	35.69
AMHARA	2,401.67	517.85	114.05	40.49	20.33	7.43	4.01	3,105.83
OROMIYA	3,136.65	541.52	417.28	156.70	65.91	25.40	7.28	4,351.06
SOMALIE	74.60	10.41	2.32	.22	.08	.11	.12	87.85
BENSHANGUL-GUMUZ	90.44	15.51	12.97	2.59	1.51	.55	.19	123.74
S.N.N.P.R.	1,814.75	291.16	313.84	115.76	55.90	17.31	8.53	2,617.25
GAMBELA	18.49	4.03	5.48	1.01	.64	.23	.08	29.97
HARARI	10.19	1.64	1.09	.32	.15	.08	.05	13.51
ADDIS ABABA	4.70	.57	.52	.36	.25	.25	.10	6.75
DIRE DAWA	13.89	1.16	.54	.12	.05	.02	-	15.77
TOTAL	8,118.17	1,476.57	884.53	321.31	145.78	51.37	20.72	11,018.75

TABLE 5.3 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Tigray

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	519.41	82.27	6.28	77.72	2.52	55.88	6.46	73.66	139.07	80.70
GRADES 1 - 3	91.01	14.42	**	**	1.68	37.25	2.06	23.49	28.61	16.60
GRADES 4 - 6	16.07	2.55	**	**	**	**	**	**	3.53	2.05
GRADES 7 - 8	3.57	.57	**	**	-	-	-	-	**	**
GRADES 9 - 11	**	**	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	631.33	100.00	8.08	100.00	4.51	100.00	8.77	100.00	172.34	100.00

TABLE 5.3.1 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

West Tigray Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	116.74	80.03	**	**	-	-	2.42	78.06	36.56	80.92
GRADES 1 - 3	24.61	16.87	-	-	**	**	**	**	6.87	15.21
GRADES 4 - 6	3.20	2.19	-	-	-	-	**	**	**	**
GRADES 7 - 8	**	**	-	-	-	-	-	-	-	-
GRADES 9 - 11	**	**	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	145.87	100.00	**	**	**	**	3.10	100.00	45.18	100.00

TABLE 5.3.2 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Central Tigray Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITERATE	171.02	80.97	-	-	**	**	2.63	75.36	47.36	81.29
GRADES 1 - 3	32.42	15.35	-	-	**	**	**	**	10.07	17.28
GRADES 4 - 6	6.70	3.17	-	-	**	**	-	-	**	**
GRADES 7 - 8	**	**	-	-	-	-	-	-	**	**
GRADES 9 - 11	-	-	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	211.21	100.00	-	-	**	**	3.49	100.00	58.26	100.00

TABLE 5.3.3 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

East Tigray Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITERATE	103.59	82.24	2.88	75.59	-	-	**	**	37.48	78.76
GRADES 1 - 3	18.29	14.52	**	**	-	-	**	**	8.27	17.38
GRADES 4 - 6	3.24	2.57	**	**	-	-	-	-	.99	2.08
GRADES 7 - 8	**	**	**	**	-	-	-	-	**	**
GRADES 9 - 11	**	**	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	125.96	100.00	3.81	100.00	-	-	**	**	47.59	100.00

TABLE 5.3.4 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

South Tigray Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	128.06	86.35	**	**	**	**	-	-	17.67	82.92
GRADES 1 - 3	15.69	10.58	**	**	**	**	**	**	3.41	16.00
GRADES 4 - 6	2.93	1.98	**	**	-	-	-	-	**	**
GRADES 7 - 8	1.02	.69	-	-	-	-	-	-	-	-
GRADES 9 - 11	**	**	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	148.30	100.00	**	**	3.34	100.00	.27	100.00	21.31	100.00

TABLE 5.4 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Afar

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	33.38	93.53	**	**	**	**	.32	82.05	.38	71.70
GRADES 1 - 3	1.72	4.82	-	-	-	-	**	**	**	**
GRADES 4 - 6	.37	1.04	**	**	**	**	-	-	**	**
GRADES 7 - 8	.18	.50	-	-	-	-	-	-	-	-
GRADES 9 - 11	**	**	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	35.69	100.00	**	**	.58	100.00	.39	100.00	.53	100.00

TABLE 5.4.1 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Zone 1 (Afar) Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	5.17	92.82	-	-	**	**	**	**	-	-
GRADES 1 - 3	.29	5.21	-	-	-	-	-	-	-	-
GRADES 4 - 6	.06	1.08	-	-	-	-	-	-	-	-
GRADES 7 - 8	**	**	-	-	-	-	-	-	-	-
GRADES 9 - 11	-	-	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	5.57	100.00	-	-	**	**	**	**	-	-

TABLE 5.4.2 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Zone 3 (Afar) Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	23.57	92.83	**	**	**	**	**	**	.38	71.70
GRADES 1 - 3	1.35	5.32	-	-	-	-	**	**	**	**
GRADES 4 - 6	**	**	**	**	**	**	-	-	**	**
GRADES 7 - 8	**	**	-	-	-	-	-	-	-	-
GRADES 9 - 11	**	**	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	25.39	100.00	**	**	**	**	**	**	.53	100.00



TABLE 5.5 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Amhara

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	2,401.67	77.33	28.93	73.06	15.83	78.10	19.86	78.16	434.78	72.35
GRADES 1 - 3	517.85	16.67	6.36	16.06	2.26	11.15	4.27	16.80	120.54	20.06
GRADES 4 - 6	114.05	3.67	2.67	6.74	**	**	**	**	26.15	4.35
GRADES 7 - 8	40.49	1.30	**	**	**	**	**	**	9.22	1.53
GRADES 9 - 11	20.33	.65	-	-	-	-	**	**	6.08	1.01
GRADE 12 COMPLETE	7.43	.24	-	-	-	-	-	-	**	**
HIGHER EDUCATION	4.01	.13	**	**	-	-	-	-	**	**
TOTAL	3,105.83	100.00	39.60	100.00	20.27	100.00	25.41	100.00	600.97	100.00

TABLE 5.5.1 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

North Gonder Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	315.88	80.85	4.81	81.53	-	-	7.60	80.17	42.42	81.25
GRADES 1 - 3	62.91	16.10	**	**	-	-	**	**	6.98	13.37
GRADES 4 - 6	9.19	2.35	-	-	-	-	-	-	**	**
GRADES 7 - 8	**	**	-	-	-	-	**	**	**	**
GRADES 9 - 11	**	**	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	390.72	100.00	5.90	100.00	-	-	9.48	100.00	52.21	100.00

TABLE 5.5.2 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

South Gonder Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	305.61	79.82	**	**	**	**	4.40	84.29	49.80	73.92
GRADES 1 - 3	62.80	16.40	-	-	-	-	**	**	14.71	21.83
GRADES 4 - 6	10.34	2.70	**	**	-	-	-	-	2.40	3.56
GRADES 7 - 8	**	**	-	-	-	-	-	-	-	-
GRADES 9 - 11	1.88	.49	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	382.89	100.00	**	**	**	**	5.22	100.00	67.37	100.00

TABLE 5.5.3 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

North Wolo Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	207.27	77.75	**	**	**	**	**	**	14.74	79.85
GRADES 1 - 3	41.62	15.61	**	**	-	-	-	-	2.80	15.17
GRADES 4 - 6	11.89	4.46	-	-	-	-	-	-	**	3.30
GRADES 7 - 8	4.45	1.67	-	-	-	-	-	-	**	**
GRADES 9 - 11	**	**	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	266.60	100.00	**	**	**	**	**	**	18.46	100.00

TABLE 5.5.4 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

South Wolo Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	420.69	76.55	**	**	**	**	-	-	36.78	73.37
GRADES 1 - 3	79.26	14.42	-	-	-	-	**	**	8.15	16.26
GRADES 4 - 6	25.60	4.66	-	-	-	-	-	-	**	**
GRADES 7 - 8	10.68	1.94	-	-	**	**	-	-	**	**
GRADES 9 - 11	10.29	1.87	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	2.43	.44	-	-	-	-	-	-	**	**
HIGHER EDUCATION	**	**	-	-	-	-	-	-	**	**
TOTAL	549.56	100.00	**	**	**	**	**	**	50.13	100.00

TABLE 5.5.5 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

North Shewa(Amhara) Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	246.27	74.47	**	**	**	**	2.58	66.84	32.29	65.51
GRADES 1 - 3	58.99	17.84	**	**	**	**	**	**	12.12	24.59
GRADES 4 - 6	16.67	5.04	-	-	-	-	**	**	**	**
GRADES 7 - 8	5.59	1.69	-	-	-	-	-	-	**	**
GRADES 9 - 11	**	**	-	-	-	-	**	**	**	**
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	330.68	100.00	**	**	**	**	3.86	100.00	49.29	100.00

TABLE 5.5.6 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

East Gojam Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	328.08	72.83	6.51	70.30	**	**	.87	100.00	85.75	67.54
GRADES 1 - 3	92.13	20.45	**	**	-	-	-	-	27.57	21.72
GRADES 4 - 6	18.68	4.15	-	-	-	-	-	-	7.50	5.91
GRADES 7 - 8	5.77	1.28	**	**	-	-	-	-	2.41	1.90
GRADES 9 - 11	2.24	.50	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	**	**
HIGHER EDUCATION	**	**	**	**	-	-	-	-	**	**
TOTAL	450.48	100.00	9.26	100.00	**	**	.87	100.00	126.96	100.00

TABLE 5.5.7 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

West Gojam Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	294.35	75.41	10.46	67.92	**	**	1.94	79.51	123.65	73.01
GRADES 1 - 3	73.53	18.84	2.73	17.73	**	**	**	**	35.31	20.85
GRADES 4 - 6	15.85	4.06	**	**	**	**	-	-	6.88	4.06
GRADES 7 - 8	5.77	1.48	**	**	-	-	-	-	3.52	2.08
GRADES 9 - 11	**	**	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	390.34	100.00	15.40	100.00	**	**	2.44	100.00	169.36	100.00

TABLE 5.5.8 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Waghamera Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	61.44	88.38	-	-	-	-	**	**	**	**
GRADES 1 - 3	7.85	11.29	-	-	-	-	-	-	**	**
GRADES 4 - 6	**	**	-	-	-	-	-	-	-	-
GRADES 7 - 8	**	**	-	-	-	-	-	-	-	-
GRADES 9 - 11	-	-	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	69.52	100.00	-	-	-	-	**	**	**	**

[illegible]

TABLE 5.6 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Oromia

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	3,136.65	72.09	30.35	52.78	28.16	68.75	75.74	68.35	624.79	67.80
GRADES 1 - 3	541.52	12.45	12.96	22.54	7.27	17.75	12.63	11.40	130.52	14.16
GRADES 4 - 6	417.28	9.59	7.79	13.55	3.31	8.08	13.62	12.29	102.51	11.12
GRADES 7 - 8	156.70	3.60	5.02	8.73	**	**	4.16	3.75	40.06	4.35
GRADES 9 - 11	65.91	1.51	**	**	**	**	2.88	2.60	14.85	1.61
GRADE 12 COMPLETE	25.40	.58	**	**	**	**	1.53	1.38	6.63	.72
HIGHER EDUCATION	7.28	.17	-	-	-	-	.25	.23	2.17	.24
NOT STATED	.32	.01	-	-	-	-	-	-	-	-
TOTAL	4,351.06	100.00	57.50	100.00	40.96	100.00	110.81	100.00	921.53	100.00

TABLE 5.6.1 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

West Welega Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	230.72	64.78	4.94	63.25	-	-	**	**	23.11	68.19
GRADES 1 - 3	46.20	12.97	**	**	-	-	-	-	3.89	11.48
GRADES 4 - 6	48.62	13.65	-	-	-	-	-	-	1.57	4.63
GRADES 7 - 8	18.95	5.32	**	**	-	-	-	-	3.94	11.63
GRADES 9 - 11	7.96	2.23	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	2.65	.74	-	-	-	-	**	**	**	**
HIGHER EDUCATION	**	**	-	-	-	-	-	-	**	**
TOTAL	356.16	100.00	7.81	100.00	-	-	**	**	33.89	100.00

TABLE 5.6.2 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

East Welega Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	190.34	68.52	1.80	46.27	**	**	**	**	25.56	57.95
GRADES 1 - 3	30.90	11.12	**	**	-	-	-	-	6.23	14.12
GRADES 4 - 6	26.74	9.63	**	**	-	-	**	**	7.02	15.91
GRADES 7 - 8	17.40	6.26	**	**	-	-	**	**	3.78	8.57
GRADES 9 - 11	8.51	3.06	-	-	**	**	-	-	**	**
GRADE 12 COMPLETE	2.31	.83	-	-	-	-	**	**	**	**
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	277.79	100.00	3.89	100.00	**	**	3.29	100.00	44.11	100.00

TABLE 5.6.3 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Illibabor Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	157.61	73.27	**	**	-	-	**	**	6.94	50.84
GRADES 1 - 3	29.73	13.82	**	**	-	-	-	-	4.80	35.16
GRADES 4 - 6	20.18	9.38	-	-	-	-	**	**	**	**
GRADES 7 - 8	4.76	2.21	**	**	-	-	**	**	**	**
GRADES 9 - 11	1.42	.66	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	**	**	**	**
TOTAL	215.12	100.00	4.36	100.00	-	-	**	**	13.65	100.00



TABLE 5.6.4 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Jimma Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	391.55	81.39	**	**	-	-	16.96	89.97	78.72	84.83
GRADES 1 - 3	50.31	10.46	**	**	-	-	1.90	10.08	7.03	7.58
GRADES 4 - 6	29.35	6.10	**	**	-	-	-	-	4.20	4.53
GRADES 7 - 8	6.31	1.31	-	-	-	-	-	-	**	1.31
GRADES 9 - 11	2.47	.51	-	-	-	-	-	-	**	1.76
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	481.06	100.00	**	**	-	-	18.85	100.00	92.80	100.00

TABLE 5.6.5 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

West Shewa Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	385.26	68.24	**	**	**	**	14.73	69.61	82.83	63.97
GRADES 1 - 3	83.58	14.80	**	**	**	**	2.26	10.68	20.48	15.82
GRADES 4 - 6	55.36	9.81	**	**	-	-	3.06	14.46	18.75	14.48
GRADES 7 - 8	21.05	3.73	-	-	-	-	**	**	3.84	2.97
GRADES 9 - 11	14.38	2.55	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	4.02	.71	-	-	-	-	-	-	**	**
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	564.60	100.00	**	**	**	**	21.16	100.00	129.48	100.00

TABLE 5.6.6 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

North Shewa(Oromia) Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	266.59	83.60	**	**	**	**	**	**	45.39	78.45
GRADES 1 - 3	31.67	9.93	-	-	-	-	-	-	8.59	14.85
GRADES 4 - 6	10.81	3.39	-	-	-	-	-	-	2.52	4.36
GRADES 7 - 8	6.52	2.04	-	-	-	-	**	**	**	**
GRADES 9 - 11	2.95	.93	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	**	**
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	318.90	100.00	**	**	**	**	**	**	57.86	100.00

TABLE 5.6.7 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

East Shewa Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	214.26	75.01	-	-	**	**	3.94	59.70	27.30	65.80
GRADES 1 - 3	31.55	11.04	-	-	**	**	**	**	6.96	16.78
GRADES 4 - 6	25.71	9.00	-	-	**	**	**	**	4.19	10.10
GRADES 7 - 8	6.66	2.33	-	-	**	**	-	-	**	**
GRADES 9 - 11	3.70	1.30	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	2.83	.99	-	-	-	-	**	**	1.21	2.92
HIGHER EDUCATION	**	**	-	-	-	-	-	-	**	**
NOT STATED	.32	.11	-	-	-	-	-	-	-	-
TOTAL	285.65	100.00	-	-	**	**	6.60	100.00	41.49	100.00

TABLE 5.6.8 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Arsi Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	387.32	63.56	-	-	**	**	13.69	53.43	127.67	59.89
GRADES 1 - 3	83.73	13.74	-	-	-	-	4.19	16.35	27.25	12.78
GRADES 4 - 6	89.70	14.72	**	**	**	**	4.56	17.80	36.35	17.05
GRADES 7 - 8	33.79	5.55	**	**	-	-	**	**	14.96	7.02
GRADES 9 - 11	9.13	1.50	-	-	-	-	2.14	8.35	4.54	2.13
GRADE 12 COMPLETE	4.46	.73	**	**	-	-	-	-	**	**
HIGHER EDUCATION	**	**	-	-	-	-	-	-	**	**
TOTAL	609.37	100.00	**	**	**	**	25.62	100.00	213.17	100.00

TABLE 5.6.9 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

West Harerge Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	230.34	80.95	4.98	60.14	**	**	4.97	87.96	40.48	73.91
GRADES 1 - 3	34.91	12.27	2.98	35.99	**	**	.68	12.04	11.35	20.72
GRADES 4 - 6	13.38	4.70	**	**	**	**	-	-	1.73	3.16
GRADES 7 - 8	3.80	1.34	-	-	-	-	-	-	**	**
GRADES 9 - 11	**	**	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	1.22	.43	-	-	-	-	-	-	**	**
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	284.53	100.00	8.28	100.00	15.44	100.00	5.65	100.00	54.77	100.00

TABLE 5.6.10 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

East Harerge Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	306.68	77.06	**	**	10.17	63.48	5.95	62.83	114.08	73.02
GRADES 1 - 3	43.56	10.94	**	**	3.35	20.91	1.56	16.47	19.92	12.75
GRADES 4 - 6	27.90	7.01	**	**	1.20	7.49	.97	10.24	12.56	8.04
GRADES 7 - 8	10.54	2.65	**	**	.46	2.87	.98	10.35	5.17	3.31
GRADES 9 - 11	**	**	**	**	.46	2.87	-	-	3.01	1.93
GRADE 12 COMPLETE	2.87	.72	-	-	.37	2.31	-	-	1.51	.97
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	397.99	100.00	**	**	16.02	100.00	9.47	100.00	156.24	100.00

TABLE 5.6.11 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Bale Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	184.14	64.28	**	**	**	**	7.83	66.53	38.90	61.58
GRADES 1 - 3	42.23	14.74	**	**	-	-	**	**	11.24	17.79
GRADES 4 - 6	37.03	12.93	**	**	-	-	**	**	8.91	14.10
GRADES 7 - 8	13.64	4.76	-	-	-	-	-	-	3.38	5.35
GRADES 9 - 11	6.20	2.16	-	-	-	-	**	**	**	**
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	286.47	100.00	**	**	**	**	11.77	100.00	63.17	100.00

TABLE 5.6.12 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Borena Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	191.85	70.16	**	**	-	-	**	**	**	**
GRADES 1 - 3	33.15	12.12	**	**	-	-	-	-	**	**
GRADES 4 - 6	32.49	11.88	**	**	-	-	**	**	**	**
GRADES 7 - 8	13.28	4.86	-	-	-	-	-	-	**	**
GRADES 9 - 11	**	**	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	273.43	100.00	**	**	-	-	**	**	**	**

TABLE 5.7 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

1)

Somale

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	74.60	84.92	.28	37.84	1.32	73.33	**	**	**	**
GRADES 1 - 3	10.41	11.85	**	**	.09	5.00	**	**	**	**
GRADES 4 - 6	2.32	2.64	**	**	**	**	-	-	**	**
GRADES 7 - 8	**	**	-	-	**	**	-	-	**	**
GRADES 9 - 11	**	**	-	-	**	**	-	-	-	-
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	**	**
TOTAL	87.85	100.00	.74	100.00	1.80	100.00	**	**	**	**

TABLE 5.7.1 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Shinele Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	3.87	89.38	.12	92.31	1.04	85.95	**	**	.37	80.43
GRADES 1 - 3	.16	3.70	-	-	.06	4.96	-	-	.06	13.04
GRADES 4 - 6	.17	3.93	**	**	**	**	-	-	**	**
GRADES 7 - 8	**	**	-	-	**	**	-	-	-	-
GRADES 9 - 11	**	**	-	-	**	**	-	-	-	-
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	**	**	.13	100.00	1.21	100.00	**	**	.46	100.00

TABLE 5.7.2 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Jijiga Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	56.55	87.77	**	**	**	**	**	**	**	**
GRADES 1 - 3	6.11	9.48	**	**	-	-	**	**	**	**
GRADES 4 - 6	1.48	2.30	-	-	**	**	-	-	-	-
GRADES 7 - 8	**	**	-	-	-	-	-	-	**	**
GRADES 9 - 11	-	-	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	**	**
TOTAL	64.43	100.00	.59	100.00	**	**	**	**	**	**

TABLE 5.7.3 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Moyale Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	14.18	74.28	-	-	**	**	-	-	-	-
GRADES 1 - 3	4.15	21.74	-	-	**	**	-	-	-	-
GRADES 4 - 6	.67	3.51	**	**	**	**	-	-	**	**
GRADES 7 - 8	**	**	-	-	-	-	-	-	-	-
GRADES 9 - 11	-	-	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	19.09	100.00	**	**	.28	100.00	-	-	**	**

TABLE 5.8 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Benshangul-Gumuz

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	90.44	73.09	.36	64.29	**	**	**	**	10.11	71.00
GRADES 1 - 3	15.51	12.53	-	-	**	**	**	**	2.06	14.47
GRADES 4 - 6	12.97	10.48	**	**	**	**	**	**	1.43	10.04
GRADES 7 - 8	2.59	2.09	**	**	**	**	**	**	.48	3.37
GRADES 9 - 11	1.51	1.22	**	**	-	-	-	-	**	**
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	**	**
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	123.74	100.00	.56	100.00	1.03	100.00	1.23	100.00	14.24	100.00

TABLE 5.8.1 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Metekel Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	35.24	71.71	**	**	**	**	**	**	6.90	67.98
GRADES 1 - 3	7.06	14.37	-	-	**	**	-	-	1.45	14.29
GRADES 4 - 6	4.64	9.44	**	**	**	**	-	-	1.18	11.63
GRADES 7 - 8	1.53	3.11	-	-	**	**	-	-	.47	4.63
GRADES 9 - 11	.62	1.26	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	**	**
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	49.14	100.00	**	**	1.03	100.00	**	**	10.15	100.00

TABLE 5.8.2 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Asosa Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	38.52	74.33	**	**	-	-	**	**	1.75	67.57
GRADES 1 - 3	6.68	12.89	-	-	-	-	**	**	**	**
GRADES 4 - 6	5.21	10.05	-	-	-	-	-	-	**	**
GRADES 7 - 8	.56	1.08	-	-	-	-	**	**	-	-
GRADES 9 - 11	**	**	**	**	-	-	-	-	-	-
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	51.82	100.00	**	**	-	-	**	**	2.59	100.00



TABLE 5.8.3 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Kemeshi Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	**	**	**	**	-	-	**	**	**	**
GRADES 1 - 3	1.77	7.77	-	-	-	-	**	**	-	-
GRADES 4 - 6	3.12	13.70	-	-	-	-	**	**	**	**
GRADES 7 - 8	.50	2.19	**	**	-	-	**	**	**	**
GRADES 9 - 11	**	**	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	22.78	100.00	**	**	-	-	.13	100.00	**	**

TABLE 5.9 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

(S.N.N.P.R)

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	1,814.75	69.34	24.03	52.66	4.34	68.13	18.61	66.77	333.04	65.60
GRADES 1 - 3	291.16	11.12	6.24	13.68	.44	6.91	2.92	10.48	62.60	12.33
GRADES 4 - 6	313.84	11.99	8.63	18.91	.60	9.42	4.56	16.36	70.95	13.97
GRADES 7 - 8	115.76	4.42	**	**	**	**	1.17	4.20	23.92	4.71
GRADES 9 - 11	55.90	2.14	**	**	-	-	.19	.68	13.39	2.64
GRADE 12 COMPLETE	17.31	.66	**	**	-	-	.41	1.47	2.93	.58
HIGHER EDUCATION	8.53	.33	-	-	**	**	-	-	**	**
TOTAL	2,617.25	100.00	45.63	100.00	6.37	100.00	27.87	100.00	507.70	100.00

TABLE 5.9.1 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Gurage Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	300.58	78.41	3.88	77.45	**	**	**	**	32.02	68.27
GRADES 1 - 3	42.62	11.12	**	**	-	-	**	**	8.50	18.12
GRADES 4 - 6	28.89	7.54	-	-	-	-	**	**	4.70	10.02
GRADES 7 - 8	8.68	2.26	-	-	-	-	-	-	**	**
GRADES 9 - 11	**	**	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	383.34	100.00	5.01	100.00	.37	100.00	3.17	100.00	46.90	100.00

TABLE 5.9.2 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Hadiya Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	117.99	62.57	**	**	**	**	**	**	11.52	58.87
GRADES 1 - 3	20.23	10.73	-	-	-	-	**	**	2.42	12.37
GRADES 4 - 6	24.07	12.77	-	-	-	-	**	**	3.26	16.66
GRADES 7 - 8	17.20	9.12	-	-	-	-	**	**	1.47	7.51
GRADES 9 - 11	4.03	2.14	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	4.49	2.38	**	**	-	-	**	**	**	**
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	188.56	100.00	**	**	**	**	**	**	19.57	100.00

TABLE 5.9.3 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Kembata Alaba Tembaro Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	119.44	70.38	**	**	-	-	**	**	11.64	59.12
GRADES 1 - 3	18.00	10.61	**	**	-	-	-	-	3.37	17.12
GRADES 4 - 6	16.32	9.62	-	-	-	-	**	**	3.03	15.39
GRADES 7 - 8	9.23	5.44	-	-	-	-	-	-	.71	3.61
GRADES 9 - 11	3.45	2.03	**	**	-	-	**	**	**	**
GRADE 12 COMPLETE	2.76	1.63	-	-	-	-	**	**	**	**
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	169.70	100.00	.77	100.00	-	-	1.31	100.00	19.69	100.00

TABLE 5.9.4 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Sidama Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	326.51	60.41	**	**	**	**	**	**	85.32	64.03
GRADES 1 - 3	82.54	15.27	**	**	-	-	-	-	18.46	13.85
GRADES 4 - 6	81.27	15.04	**	**	-	-	**	**	18.25	13.70
GRADES 7 - 8	28.79	5.33	**	**	-	-	**	**	6.93	5.20
GRADES 9 - 11	18.67	3.45	**	**	-	-	-	-	4.30	3.23
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	540.53	100.00	**	**	**	**	**	**	133.26	100.00

TABLE 5.9.5 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Gedio Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	78.13	65.29	**	**	-	-	**	**	12.47	72.04
GRADES 1 - 3	15.75	13.16	**	**	-	-	**	**	2.28	13.17
GRADES 4 - 6	17.61	14.72	**	**	-	-	**	**	1.45	8.38
GRADES 7 - 8	4.79	4.00	-	-	-	-	-	-	**	**
GRADES 9 - 11	2.49	2.08	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	**	**
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	119.67	100.00	**	**	-	-	**	**	17.31	100.00

TABLE 5.9.6 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

North Omo Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	517.02	68.31	10.43	49.38	**	**	10.00	78.68	153.15	64.63
GRADES 1 - 3	67.58	8.93	**	**	-	-	**	**	24.17	10.20
GRADES 4 - 6	107.12	14.15	5.06	23.96	-	-	**	**	37.76	15.93
GRADES 7 - 8	33.08	4.37	**	**	**	**	-	-	12.59	5.31
GRADES 9 - 11	21.46	2.84	**	**	-	-	-	-	6.97	2.94
GRADE 12 COMPLETE	5.04	.67	**	**	-	-	-	-	**	**
HIGHER EDUCATION	**	**	-	-	-	-	-	-	**	**
TOTAL	756.84	100.00	21.12	100.00	**	**	12.71	100.00	236.97	100.00

TABLE 5.9.7 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

South Omo Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	77.69	84.73	**	**	-	-	**	**	3.60	71.86
GRADES 1 - 3	6.96	7.59	**	**	-	-	**	**	.77	15.37
GRADES 4 - 6	5.10	5.56	**	**	**	**	-	-	**	**
GRADES 7 - 8	1.43	1.56	**	**	-	-	-	-	**	**
GRADES 9 - 11	**	**	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	91.69	100.00	**	**	**	**	**	**	5.01	100.00

TABLE 5.9.8 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Keficho-Shekicho Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	136.43	74.76	**	**	-	-	**	**	6.57	87.95
GRADES 1 - 3	17.11	9.38	**	**	-	-	-	-	**	**
GRADES 4 - 6	19.22	10.53	-	-	-	-	**	**	**	**
GRADES 7 - 8	7.37	4.04	-	-	-	-	**	**	-	-
GRADES 9 - 11	1.97	1.08	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	**	**	**	**	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	182.50	100.00	.89	100.00	-	-	**	**	7.47	100.00

TABLE 5.9.9 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Bench-Maji Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	70.57	76.40	1.12	73.68	**	**	**	**	6.09	84.58
GRADES 1 - 3	10.66	11.54	-	-	-	-	-	-	**	**
GRADES 4 - 6	6.49	7.03	**	**	-	-	-	-	**	**
GRADES 7 - 8	2.78	3.01	**	**	-	-	-	-	**	**
GRADES 9 - 11	1.18	1.28	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	**	**	**	**	-	-	-	-	**	1.94
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	92.37	100.00	1.52	100.00	**	**	**	**	7.20	100.00

TABLE 5.9.10 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Yem Special Wereda Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	11.44	73.15	.18	64.29	-	-	**	**	2.88	71.46
GRADES 1 - 3	1.37	8.76	**	**	-	-	-	-	.45	11.17
GRADES 4 - 6	1.57	10.04	**	**	-	-	**	**	.41	10.17
GRADES 7 - 8	.85	5.43	**	**	-	-	-	-	.18	4.47
GRADES 9 - 11	.33	2.11	-	-	-	-	-	-	**	2.23
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	**	.50
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	15.64	100.00	.28	100.00	-	-	.18	100.00	4.03	100.00

TABLE 5.9.11 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Amaro Special Wereda Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	12.51	65.43	-	-	1.42	58.20	-	-	2.68	67.17
GRADES 1 - 3	2.76	14.44	-	-	.42	17.21	-	-	.61	15.29
GRADES 4 - 6	2.78	14.54	-	-	.47	19.26	-	-	.60	15.04
GRADES 7 - 8	.68	3.56	-	-	**	**	-	-	**	2.76
GRADES 9 - 11	.17	.89	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	19.12	100.00	-	-	2.44	100.00	-	-	3.99	100.00

TABLE 5.9.12 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Burji Special Wereda Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	6.10	78.81	**	**	**	**	.02	100.00	.84	76.36
GRADES 1 - 3	.81	10.47	-	-	-	-	-	-	**	**
GRADES 4 - 6	.47	6.07	-	-	-	-	-	-	**	**
GRADES 7 - 8	.18	2.33	-	-	-	-	-	-	**	**
GRADES 9 - 11	.14	1.81	-	-	-	-	-	-	**	**
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	7.74	100.00	**	**	**	**	.02	100.00	1.10	100.00

TABLE 5.9.13 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Konso Special Wereda Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	26.67	83.47	**	**	**	**	**	**	3.70	81.68
GRADES 1 - 3	2.94	9.20	**	**	-	-	-	-	**	**
GRADES 4 - 6	1.40	4.38	-	-	-	-	-	-	.19	4.19
GRADES 7 - 8	.44	1.38	**	**	-	-	-	-	**	**
GRADES 9 - 11	**	**	**	**	-	-	-	-	-	-
GRADE 12 COMPLETE	**	**	-	-	-	-	-	-	**	**
HIGHER EDUCATION	**	**	-	-	-	-	-	-	**	**
TOTAL	31.95	100.00	**	**	**	**	**	**	4.53	100.00

TABLE 5.9.14 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Derashe Special Wereda Zone

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	13.69	77.78	-	-	**	**	.10	100.00	**	**
GRADES 1 - 3	1.85	10.51	-	-	**	**	-	-	**	**
GRADES 4 - 6	1.54	8.75	-	-	**	**	-	-	**	**
GRADES 7 - 8	.27	1.53	-	-	-	-	-	-	**	**
GRADES 9 - 11	.12	.68	-	-	-	-	-	-	-	-
GRADE 12 COMPLETE	.11	.63	-	-	-	-	-	-	-	-
HIGHER EDUCATION	**	**	-	-	**	**	-	-	-	-
TOTAL	17.60	100.00	-	-	**	**	.10	100.00	**	**



TABLE 5.10 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Gambela

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	18.49	61.70	**	**	-	-	**	**	**	**
GRADES 1 - 3	4.03	13.45	**	**	-	-	-	-	**	**
GRADES 4 - 6	5.48	18.28	**	**	-	-	-	-	-	-
GRADES 7 - 8	1.01	3.37	-	-	-	-	-	-	-	-
GRADES 9 - 11	.64	2.14	**	**	-	-	-	-	-	-
GRADE 12 COMPLETE	.23	.77	**	**	-	-	**	**	-	-
HIGHER EDUCATION	**	**	-	-	-	-	-	-	-	-
TOTAL	29.97	100.00	**	**	-	-	.22	100.00	**	**

TABLE 5.11 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Harari

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	10.19	75.43	.45	68.18	.43	66.15	.97	57.74	5.69	70.77
GRADES 1 - 3	1.64	12.14	.08	12.12	.11	16.92	.37	22.02	1.27	15.80
GRADES 4 - 6	1.09	8.07	.10	15.15	**	**	.24	14.29	.71	8.83
GRADES 7 - 8	.32	2.37	-	-	**	**	**	**	.20	2.49
GRADES 9 - 11	.15	1.11	**	**	**	**	**	**	**	**
GRADE 12 COMPLETE	**	**	**	**	-	-	-	-	**	**
HIGHER EDUCATION	**	**	-	-	-	-	**	**	**	**
TOTAL	13.51	100.00	.66	100.00	.65	100.00	1.68	100.00	8.04	100.00

TABLE 5.12 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Addis Ababa

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	4.70	69.63	.16	47.06	**	**	.09	81.82	1.68	70.00
GRADES 1 - 3	.57	8.44	**	**	**	**	**	**	.17	7.08
GRADES 4 - 6	.52	7.70	**	**	**	**	**	**	.15	6.25
GRADES 7 - 8	.36	5.33	**	**	**	**	-	-	.16	6.67
GRADES 9 - 11	.25	3.70	**	**	**	**	-	-	.13	5.42
GRADE 12 COMPLETE	.25	3.70	**	**	-	-	-	-	.10	4.17
HIGHER EDUCATION	.10	1.48	**	**	-	-	-	-	**	**
TOTAL	6.75	100.00	.34	100.00	**	**	.11	100.00	2.40	100.00

TABLE 5.13 NUMBER OF HOLDERS WHO APPLIED AGRICULTURAL PRACTICES IN THEIR FIELDS  
BY EDUCATIONAL ATTAINMENT FOR PRIVATE PEASANT HOLDINGS  
1999/2000(1992 E.C.)

Dire Dawa

NUMBER IN THOUSANDS ('000)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED									
	TOTAL	PERCENT	IMPROVED SEED	PERCENT	IRRIGATION	PERCENT	PESTICIDE	PERCENT	FERTILIZER	PERCENT
ILLITRATE	13.89	88.08	2.73	88.93	1.61	79.70	.21	75.00	2.47	81.79
GRADES 1 - 3	1.16	7.36	.22	7.17	.22	10.89	**	**	.32	10.60
GRADES 4 - 6	.54	3.42	**	**	**	**	**	**	.19	6.29
GRADES 7 - 8	.12	.76	-	-	-	-	-	-	-	-
GRADES 9 - 11	**	**	-	-	**	**	-	-	**	**
GRADE 12 COMPLETE	**	**	**	**	**	**	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-
TOTAL	15.77	100.00	3.07	100.00	2.02	100.00	.28	100.00	3.02	100.00

## **APPENDIX I**

### **ESTIMATION PROCEDURES AND FORMULATIONS FOR ESTIMATES OF TOTALS AND VARIANCE**

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## APPENDIX I

### ESTIMATION PROCEDURES OF TOTAL AND SAMPLING ERRORS

#### 1. Estimating Area

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

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

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 successfully covered in the  $h^{\text{th}}$  stratum.

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

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

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

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

$a_{hi}$  is the sample total of area values in the  $i^{\text{th}}$  EA in the  $h^{\text{th}}$  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  $h^{\text{th}}$  stratum.

2. To estimate quantity of fertilizer

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

in which

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

in 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  $h^{\text{th}}$  stratum.

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

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

In estimating the sampling variance by the above formula, selection of EAs within a stratum is assumed to be with replacement. By so doing the variance estimate may be slightly over estimated but it greatly simplify the estimation procedure. Furthermore the finite population correction (fpc) is ignored in the formula. This is due to the fact that its effect is negligible.

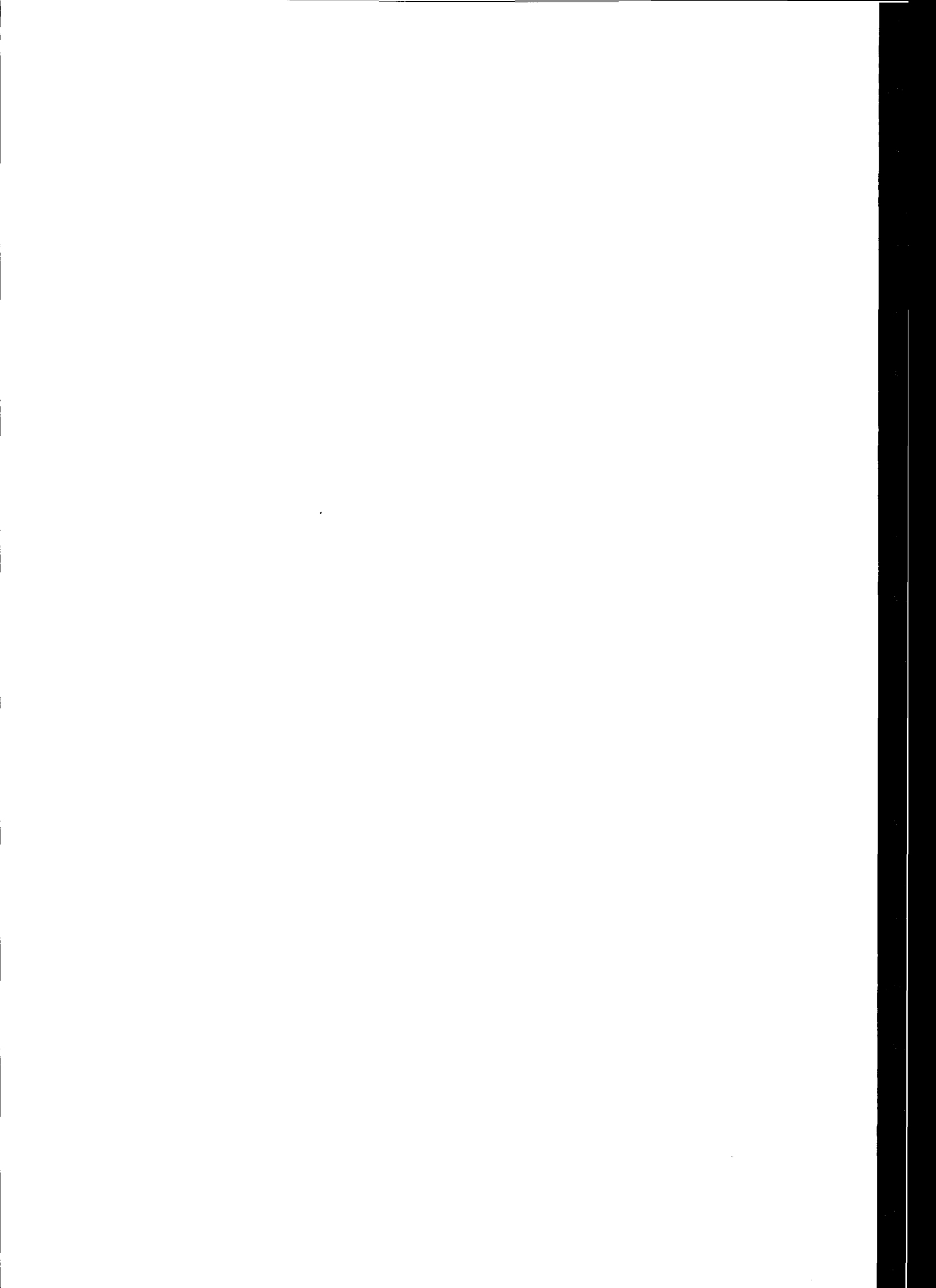
#### 4. Estimating Coefficient of Variation

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

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

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

Regional or National Estimates of the total Characteristic and Sampling variance are obtained by aggregating the respective stratum totals.





## **APPENDIX II**

**ESTIMATES OF THE STANDARD ERRORS  
WITH THE CORRESPONDING  
COEFFICIENTS OF VARIATION**



TABLE 1.1

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

National

TYPE OF CROP	Total Area			Improved Seed Applied			Irrigation applied			Pesticide Applied			Fertilizer Applied		
	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	6,746.04	153.80	2.28	302.80	22.46	7.42	42.85	6.84	15.96	424.59	31.31	7.37	3,004.01	126.89	4.22
Teff	2,123.25	81.29	3.83	25.40	6.04	23.79	5.23	1.07	20.55	181.85	17.08	9.39	1,124.80	67.83	6.03
Barely	794.10	52.69	6.64	0.27	0.13	49.52	4.63	1.64	35.49	35.59	5.43	15.26	320.28	41.43	12.94
Wheat	1,025.09	81.28	7.93	57.42	5.58	9.72	1.78	0.57	32.04	135.81	21.95	16.16	669.45	70.48	10.53
Maize	1,407.03	56.43	4.01	216.84	21.56	9.94	18.56	3.74	20.15	36.68	4.48	12.22	640.70	42.11	6.57
Sorghum	994.67	52.43	5.27	2.87	0.57	19.87	11.51	3.64	31.65	26.56	4.82	18.14	101.31	11.76	11.61
Millet	360.23	34.36	9.54	-	-	-	1.07	0.50	47.17	6.67	1.83	27.42	134.22	17.77	13.24
Oats	41.67	6.02	14.45	-	-	-	*	*	*	1.43	0.50	35.19	13.25	3.18	24.02
PULSES	1,044.90	55.23	5.29	1.80	0.64	35.63	2.89	0.87	30.25	16.74	7.38	44.08	138.32	17.48	12.64
Horse Beans	359.10	30.44	8.48	*	*	*	0.17	0.07	44.26	*	*	*	69.63	12.24	17.58
Chick Peas	152.20	12.93	8.50	0.95	0.46	47.74	1.16	0.54	46.61	1.71	0.82	48.17	3.66	0.78	21.20
Haricot Beans	166.02	15.63	9.41	0.15	0.06	42.47	0.81	0.26	32.03	1.96	0.65	33.00	28.55	4.97	17.42
Field Peas	184.79	19.06	10.31	*	*	*	*	*	*	0.88	0.29	32.91	27.15	7.60	28.01
Lentils	72.22	14.39	19.92	*	*	*	*	*	*	0.47	0.23	49.23	8.09	2.67	33.00
Vetch	110.58	12.87	11.64	-	-	-	*	*	*	*	*	*	1.24	0.34	27.66
OILSEEDS	408.11	25.75	6.31	*	*	*	0.42	0.17	40.24	3.61	1.38	38.10	31.83	4.95	15.56
Neug	256.53	20.63	8.04	-	-	-	-	-	-	*	*	*	10.02	2.80	28.01
Lin Seed	74.12	8.06	10.88	*	*	*	*	*	*	*	*	*	4.52	1.06	23.40
Rape seed	20.36	4.37	21.45	-	-	-	0.07	0.03	48.59	*	*	*	11.99	3.11	25.95
Ground Nuts	13.55	4.95	36.53	*	*	*	*	*	*	0.02	0.01	46.58	1.88	0.80	42.63
Sun Flower	5.23	0.98	18.69	-	-	-	*	*	*	*	*	*	0.74	0.22	29.16
Sesame	38.19	11.39	29.84	-	-	-	*	*	*	*	*	*	*	*	*
Castor Bean	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
OTHERS	272.43	13.99	5.14	*	*	*	13.38	4.03	30.12	2.56	0.53	20.78	104.64	6.87	6.56
Fenugreek	16.30	2.21	13.53	-	-	-	*	*	*	*	*	*	1.66	0.33	20.20
Spices	62.90	7.80	12.40	*	*	*	2.08	0.87	41.80	0.62	0.31	49.37	20.78	2.63	12.68
Potatoes	47.43	5.33	11.24	-	-	-	0.80	0.23	29.27	0.74	0.32	42.95	27.94	4.05	14.48
Other Vegetables	145.80	8.98	6.16	*	*	*	10.36	3.89	37.53	1.09	0.29	26.43	54.26	4.20	7.74
ALL TEMPORARY	8,471.48	190.65	2.25	311.46	22.77	7.31	59.54	8.26	13.87	447.50	32.43	7.25	3,278.80	135.28	4.13
Chat	88.57	5.71	6.45	-	-	-	6.72	1.09	16.25	2.89	0.75	26.10	31.95	3.48	10.90
Coffee	245.28	20.53	8.37	17.71	3.44	19.43	6.36	1.72	27.06	2.12	0.45	21.43	39.50	3.80	9.62
Enset	266.78	22.00	8.25	-	-	-	0.80	0.18	22.86	2.65	0.71	26.66	178.90	19.07	10.66
Cotton	12.07	5.92	49.05	-	-	-	*	*	*	*	*	*	1.75	0.86	49.19
Tobacco	3.98	0.50	12.48	*	*	*	*	*	*	*	*	*	1.44	0.23	15.85
Fruits	19.67	3.12	15.85	*	*	*	*	*	*	*	*	*	4.27	0.63	14.65
Other Permanent	25.84	2.08	8.07	*	*	*	3.75	1.10	29.27	*	*	*	7.93	1.01	12.74
TOTAL PERMANENT	662.19	34.52	5.21	17.93	3.44	19.20	21.59	3.66	16.93	7.95	1.14	14.37	265.73	20.66	7.78
ALL CROPS	9,133.68	191.45	2.10	329.39	23.19	7.04	81.13	9.45	11.65	455.45	32.48	7.13	3,544.53	137.51	3.88

TABLE 1.2

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Tigray

TYPE OF CROP	Total Area			Improved Seed Applied			Irrigation applied			Pesticide Applied			Fertilizer Applied		
	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)
CEREALS	489.49	36.20	7.40	6.86	1.42	20.64	5.11	2.06	40.40	6.70	1.34	20.01	199.35	27.78	13.93
Teff	126.44	12.47	9.86	*	*	*	1.49	0.67	44.60	2.54	1.11	43.49	54.16	7.49	13.83
Barely	77.90	8.09	10.39	*	*	*	*	*	*	0.32	0.12	36.84	33.58	4.51	13.44
Wheat	70.57	8.01	11.35	4.71	0.86	18.27	*	*	*	0.89	0.28	31.83	30.29	4.01	13.25
Maize	75.55	23.96	31.72	*	*	*	*	*	*	1.25	0.46	36.57	49.36	23.30	47.21
Sorghum	81.57	12.56	15.40	*	*	*	*	*	*	1.04	0.37	35.42	14.30	4.03	28.14
Millet	57.21	10.16	17.75	-	-	-	*	*	*	*	*	*	17.66	3.51	19.86
Oats	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
PULSES	43.15	3.64	8.44	*	*	*	*	*	*	*	*	*	2.89	0.48	16.72
Horse Beans	12.35	1.96	15.85	-	-	-	*	*	*	*	*	*	1.93	0.41	21.03
Chick Peas	5.14	1.22	23.77	-	-	-	*	*	*	-	-	-	0.30	0.13	41.14
Haricot Beans	2.68	1.08	40.29	*	*	*	-	-	-	*	*	*	*	*	*
Field Peas	13.38	2.33	17.38	-	-	-	*	*	*	*	*	*	0.38	0.11	29.74
Lentils	2.92	0.91	31.05	-	-	-	*	*	*	*	*	*	*	*	*
Vetch	6.68	1.46	21.90	-	-	-	-	-	-	-	-	-	*	*	*
OILSEEDS	27.97	6.95	24.85	-	-	-	-	-	-	0.13	0.06	46.16	*	*	*
Neug	7.48	2.10	28.13	-	-	-	-	-	-	*	*	*	*	*	*
Lin Seed	6.59	0.95	14.48	-	-	-	-	-	-	0.08	0.04	48.02	0.33	0.11	34.40
Rape seed	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Sesame	13.79	6.55	47.47	-	-	-	-	-	-	-	-	-	*	*	*
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	1.74	0.43	24.62	*	*	*	*	*	*	*	*	*	0.28	0.08	28.28
Fenugreek	0.26	0.09	33.58	-	-	-	-	-	-	-	-	-	*	*	*
Spices	0.63	0.24	37.67	-	-	-	*	*	*	-	-	-	*	*	*
Potatoes	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Other Vegetables	0.76	0.24	31.25	*	*	*	0.19	0.08	42.81	-	-	-	0.12	0.04	33.39
ALL TEMPORARY	562.35	37.64	6.69	6.95	1.45	20.86	6.19	2.13	34.44	7.42	1.39	18.71	204.66	27.90	13.63
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Tobaco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.09	0.03	35.71	-	-	-	0.06	0.02	42.34	-	-	-	*	*	*
Other Permanent	0.90	0.30	33.22	-	-	-	0.12	0.04	33.81	-	-	-	*	*	*
TOTAL PERMANENT	1.02	0.31	30.22	-	-	-	0.18	0.06	33.90	-	-	-	0.14	0.06	46.29
ALL CROPS	563.37	37.63	6.68	6.95	1.45	20.86	6.37	2.13	33.49	7.42	1.39	18.71	204.80	27.90	13.62

TABLE 1.3

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Afar

TYPE OF CROP	Total Area			Improved Seed Applied			Irrigation applied			Pesticide Applied			Fertilizer Applied		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	17.67	3.76	21.26	-	-	-	3.74	0.83	22.08	0.93	0.37	39.85	0.83	0.27	31.91
Teff	6.61	2.15	32.47	-	-	-	*	*	*	0.76	0.35	46.90	0.34	0.16	48.04
Barely	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Wheat	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Maize	6.38	1.17	18.36	-	-	-	3.56	0.83	23.27	0.09	0.03	38.44	0.21	0.08	37.56
Sorghum	4.29	1.28	29.80	-	-	-	*	*	*	*	*	*	0.24	0.11	47.62
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	1.02	0.42	41.63	-	-	-	-	-	-	*	*	*	*	*	*
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Haricot Beans	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Field Peas	0.40	0.18	45.53	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.36	0.12	33.79	-	-	-	*	*	*	*	*	*	*	*	*
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	0.12	0.06	48.78	-	-	-	-	-	-	*	*	*	*	*	*
Sesame	0.13	0.06	48.16	-	-	-	*	*	*	*	*	*	*	*	*
Castor Bean	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
OTHERS	*	*	*	*	*	*	*	*	*	-	-	-	*	*	*
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	0.03	0.01	37.45	-	-	-	*	*	*	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	*	*	*	*	*	*	*	*	*	-	-	-	*	*	*
ALL TEMPORARY	19.21	4.18	21.78	*	*	*	3.98	0.84	21.18	0.98	0.40	40.25	0.95	0.29	30.35
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	*	*	*	-	-	-	*	*	*	*	*	*	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.01	0.01	47.81	-	-	-	0.01	-	43.81	-	-	-	-	-	-
Other Permanent	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
TOTAL PERMANENT	*	*	*	-	-	-	*	*	*	*	*	*	-	-	-
ALL CROPS	19.45	4.21	21.67	*	*	*	4.02	0.84	20.88	0.99	0.39	39.64	0.95	0.29	30.36

TABLE 1.4

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Anhara

TYPE OF CROP	Total Area			Improved Seed Applied			Irrigation applied			Pesticide Applied			Fertilizer Applied		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	2,368.38	92.02	3.89	80.48	10.13	12.59	16.57	4.96	29.96	50.08	12.30	24.55	886.95	69.65	7.85
Teff	906.06	52.37	5.78	12.36	5.08	41.12	2.11	0.72	34.24	16.37	3.28	20.04	417.69	40.99	9.81
Barely	268.16	21.54	8.03	-	-	-	3.87	1.62	41.95	1.98	0.61	31.01	43.09	7.01	16.27
Wheat	314.04	51.78	16.49	16.62	3.11	18.70	0.89	0.43	47.68	*	*	*	144.95	37.84	26.10
Maize	309.41	21.15	6.83	51.47	9.24	17.96	6.14	2.69	43.77	4.49	1.06	23.67	170.79	17.39	10.18
Sorghum	356.79	40.00	11.21	*	*	*	*	*	*	7.32	1.92	26.26	15.11	4.03	26.68
Millet	202.47	29.55	14.60	-	-	-	*	*	*	3.85	1.69	43.78	94.48	16.22	17.17
Oats	11.46	2.58	22.56	-	-	-	*	*	*	*	*	*	0.84	0.27	32.24
PULSES	504.08	45.86	9.10	*	*	*	*	*	*	*	*	*	25.70	7.62	29.64
Horse Beans	170.54	25.50	14.95	-	-	-	*	*	*	*	*	*	16.16	7.17	44.40
Chick Peas	68.65	8.61	12.54	*	*	*	*	*	*	0.43	0.20	47.50	0.83	0.34	41.36
Haricot Beans	53.61	10.76	20.07	-	-	-	*	*	*	*	*	*	1.47	0.49	33.56
Field Peas	104.34	12.35	11.84	-	-	-	-	-	-	*	*	*	2.99	0.96	32.02
Lentils	44.24	13.71	30.99	*	*	*	*	*	*	*	*	*	*	*	*
Vetch	62.70	10.02	15.98	-	-	-	*	*	*	-	-	-	*	*	*
OILSEEDS	193.62	18.66	9.64	-	-	-	0.14	0.07	48.15	*	*	*	15.88	3.60	22.66
Neug	140.05	16.23	11.59	-	-	-	-	-	-	*	*	*	7.77	2.74	35.25
Lin Seed	24.19	2.82	11.65	-	-	-	-	-	-	*	*	*	0.80	0.32	40.15
Rape seed	9.34	1.61	17.28	-	-	-	*	*	*	*	*	*	5.93	1.32	22.28
Ground Nuts	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	4.33	0.95	21.93	-	-	-	*	*	*	*	*	*	0.57	0.19	33.93
Sesame	*	*	*	-	-	-	*	*	*	*	*	*	*	*	*
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	70.72	6.94	9.81	*	*	*	3.77	1.16	30.77	*	*	*	19.46	2.69	13.80
Fenugreek	7.88	1.60	20.37	-	-	-	*	*	*	*	*	*	0.27	0.13	45.74
Spices	24.25	4.81	19.84	*	*	*	*	*	*	*	*	*	7.99	1.51	18.94
Potatoes	16.80	3.00	17.86	-	-	-	0.26	0.08	31.47	-	-	-	6.51	1.77	27.27
Other Vegetables	21.79	3.26	14.97	*	*	*	1.83	0.65	35.42	*	*	*	4.69	0.83	17.80
ALL TEMPORARY	3,136.80	125.28	3.99	81.55	10.10	12.38	22.02	5.21	23.65	60.64	14.16	23.36	948.00	73.42	7.75
Chat	1.89	0.61	32.13	-	-	-	0.30	0.11	37.71	0.07	0.03	46.50	0.73	0.35	48.32
Coffee	*	*	*	*	*	*	2.53	1.13	44.52	*	*	*	1.63	0.48	29.42
Enset	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	*	*	*	-	-	-	*	*	*	-	-	-	*	*	*
Tobacco	0.43	0.18	42.02	-	-	-	-	-	-	*	*	*	0.03	0.01	45.53
Fruits	1.33	0.35	26.36	*	*	*	0.52	0.17	31.78	*	*	*	0.32	0.12	36.70
Other Permanent	7.92	0.93	11.74	*	*	*	0.99	0.23	23.00	*	*	*	2.06	0.42	20.29
TOTAL PERMANENT	30.99	9.03	29.13	*	*	*	4.38	1.37	31.22	0.24	0.11	46.83	6.06	1.21	19.94
ALL CROPS	3,167.79	124.85	3.94	81.93	10.09	12.31	26.39	5.55	21.03	60.89	14.18	23.29	954.05	73.45	7.70

TABLE 1.5

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Oromia

TYPE OF CROP	Total Area			Improved Seed Applied			Irrigation applied			Pesticide Applied			Fertilizer Applied		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	3,060.42	108.00	3.53	133.22	16.61	12.47	12.97	4.06	31.31	312.65	28.03	8.97	1,601.70	99.62	6.22
Teff	891.83	56.82	6.37	5.99	2.60	43.40	0.87	0.32	37.14	139.48	16.14	11.57	563.29	52.41	9.30
Barely	385.76	46.05	11.94	*	*	*	*	*	*	31.81	5.35	16.82	218.96	40.20	18.36
Wheat	565.85	61.67	10.90	26.28	4.14	15.75	*	*	*	102.04	18.52	18.15	435.60	58.93	13.53
Maize	747.50	41.13	5.50	100.04	16.12	16.11	4.46	1.44	32.27	22.47	3.73	16.62	297.61	26.48	8.90
Sorghum	368.03	28.44	7.73	*	*	*	6.95	3.16	45.48	14.61	4.32	29.57	55.51	9.93	17.89
Millet	71.80	12.51	17.42	-	-	-	*	*	*	0.88	0.40	45.43	18.39	6.23	33.86
Oats	29.65	5.43	18.33	-	-	-	*	*	*	1.37	0.50	36.65	12.34	3.17	25.69
PULSES	387.22	28.76	7.43	1.29	0.57	43.97	0.22	0.07	30.04	4.10	0.81	19.69	75.08	15.01	19.99
Horse Beans	144.82	16.00	11.05	*	*	*	*	*	*	2.08	0.59	28.22	39.97	9.71	24.28
Chick Peas	55.62	8.74	15.72	*	*	*	*	*	*	*	*	*	1.59	0.63	39.28
Haricot Beans	65.48	9.74	14.88	*	*	*	0.14	0.06	40.33	0.80	0.29	36.83	11.34	3.38	29.79
Field Peas	57.59	13.78	23.93	*	*	*	-	-	-	*	*	*	18.10	7.38	40.78
Lentils	23.94	4.25	17.76	*	*	*	-	-	-	*	*	*	3.46	0.97	27.94
Vetch	39.77	7.94	19.97	-	-	-	-	-	-	*	*	*	0.62	0.26	42.07
OILSEEDS	157.85	15.86	10.05	*	*	*	*	*	*	*	*	*	12.05	3.14	26.05
Neug	92.34	12.15	13.16	-	-	-	-	-	-	*	*	*	1.21	0.41	34.15
Lin Seed	42.44	7.49	17.66	*	*	*	*	*	*	*	*	*	3.25	1.00	30.74
Rape seed	10.73	4.06	37.79	-	-	-	-	-	-	*	*	*	5.91	2.82	47.70
Ground Nuts	9.92	4.86	49.02	*	*	*	-	-	-	-	-	-	*	*	*
Sun Flower	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Sesame	2.05	0.96	46.93	-	-	-	*	*	*	-	-	-	*	*	*
Castor Bean	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	100.34	8.28	8.26	*	*	*	4.99	1.27	25.46	0.97	0.31	32.11	38.25	4.59	11.99
Fenugreek	7.64	1.50	19.66	-	-	-	*	*	*	*	*	*	1.18	0.29	24.36
Spices	18.23	4.92	27.00	-	-	-	0.26	0.11	42.84	*	*	*	3.64	1.05	28.76
Potatoes	18.01	3.68	20.41	-	-	-	0.52	0.22	42.26	*	*	*	12.28	3.15	25.68
Other Vegetables	56.46	4.36	7.72	*	*	*	4.14	1.20	29.02	0.45	0.17	38.13	21.14	2.73	12.91
ALL TEMPORARY	3,705.83	125.95	3.40	136.41	16.66	12.21	18.31	4.58	24.99	320.20	28.28	8.83	1,727.08	106.68	6.18
Chat	61.49	4.50	7.31	-	-	-	5.39	1.00	18.65	1.05	0.36	34.48	19.90	3.09	15.50
Coffee	144.43	16.59	11.49	11.31	2.46	21.75	1.53	0.65	42.32	1.24	0.38	30.86	8.59	1.89	21.96
Enset	87.16	18.63	21.38	-	-	-	*	*	*	*	*	*	47.96	16.41	34.21
Cotton	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Tobacco	2.13	0.35	16.25	-	-	-	*	*	*	-	-	-	0.75	0.15	19.53
Fruits	7.94	1.53	19.28	-	-	-	0.40	0.12	29.13	*	*	*	1.20	0.33	27.70
Other Permanent	8.62	1.45	16.77	*	*	*	2.40	1.07	44.58	*	*	*	2.00	0.48	23.81
TOTAL PERMANENT	311.79	27.90	8.95	11.37	2.46	21.64	9.84	1.86	18.90	3.22	0.74	23.03	80.42	16.94	21.07
ALL CROPS	4,017.62	124.88	3.11	147.78	17.11	11.58	28.15	5.22	18.55	323.41	28.29	8.75	1,807.50	108.56	6.01

TABLE 1.6

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

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TABLE 1.7

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Benshangul-Gumuz

	Total Area			Improved Seed Applied			Irrigation applied			Pesticide Applied			Fertilizer Applied		
TYPE OF CROP	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	141.28	19.81	14.02	1.87	0.48	25.88	*	*	*	1.84	0.44	24.23	16.88	4.62	27.38
Teff	23.81	6.06	25.45	*	*	*	-	-	-	*	*	*	5.27	2.54	48.26
Barely	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Wheat	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Maize	29.54	7.51	25.43	1.85	0.49	26.26	*	*	*	0.62	0.18	29.52	7.94	2.51	31.67
Sorghum	60.35	7.32	12.13	-	-	-	*	*	*	0.68	0.30	44.38	0.57	0.25	43.01
Millet	24.57	6.80	27.67	-	-	-	-	-	-	*	*	*	*	*	*
Oats	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
PULSES	6.90	1.68	24.40	-	-	-	-	-	-	*	*	*	*	*	*
Horse Beans	1.22	0.53	43.15	-	-	-	-	-	-	-	-	-	*	*	*
Chick Peas	*	*	*	-	-	-	-	-	-	*	*	*	*	*	*
Haricot Beans	4.63	1.45	31.39	-	-	-	-	-	-	*	*	*	0.04	0.02	48.09
Field Peas	0.40	0.17	43.26	-	-	-	-	-	-	-	-	-	*	*	*
Lentils	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	24.46	3.80	15.52	-	-	-	*	*	*	*	*	*	0.88	0.38	42.52
Neug	15.58	3.12	20.04	-	-	-	-	-	-	-	-	-	*	*	*
Lin Seed	0.29	0.08	26.08	-	-	-	-	-	-	-	-	-	*	*	*
Rape seed	0.04	0.02	49.64	-	-	-	*	*	*	-	-	-	*	*	*
Ground Nuts	1.90	0.79	41.34	-	-	-	-	-	-	-	-	-	*	*	*
Sun Flower	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Sesame	6.64	1.83	27.54	-	-	-	-	-	-	*	*	*	*	*	*
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	4.73	0.79	16.75	*	*	*	-	-	-	0.03	0.01	41.86	1.02	0.29	28.29
Fenugreek	0.04	0.02	45.29	-	-	-	-	-	-	-	-	-	-	-	-
Spices	1.66	0.48	28.76	-	-	-	-	-	-	*	*	*	0.49	0.16	31.86
Potatoes	*	*	*	-	-	-	-	-	-	*	*	*	*	*	*
Other Vegetables	2.66	0.55	20.86	*	*	*	-	-	-	*	*	*	0.23	0.07	31.73
ALL TEMPORARY	177.37	23.51	13.25	1.92	0.48	25.12	*	*	*	1.92	0.45	23.31	19.45	5.33	27.43
Chat	0.10	0.05	44.72	-	-	-	-	-	-	-	-	-	0.01	-	49.41
Coffee	*	*	*	0.17	0.04	24.23	*	*	*	*	*	*	*	*	*
Enset	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	0.17	0.07	41.57	-	-	-	-	-	-	-	-	-	*	*	*
Tobacco	0.06	0.02	37.20	-	-	-	-	-	-	-	-	-	*	*	*
Fruits	0.68	0.15	22.34	-	-	-	0.06	0.02	32.11	-	-	-	0.04	0.01	23.03
Other Permanent	0.23	0.07	32.37	-	-	-	*	*	*	-	-	-	*	*	*
TOTAL PERMANENT	3.16	1.16	36.59	0.17	0.04	24.16	*	*	*	*	*	*	0.25	0.09	37.84
ALL CROPS	180.54	23.51	13.02	2.09	0.49	23.46	*	*	*	1.94	0.45	23.13	19.69	5.33	27.09

TABLE 1.8

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

(S.N.N.P.R)

	Total Area			Improved Seed Applied			Irrigation applied			Pesticide Applied			Fertilizer Applied		
TYPE OF CROP	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	593.09	41.50	7.00	75.28	10.94	14.53	2.95	0.80	27.15	50.73	6.41	12.64	284.87	23.00	8.07
Teff	164.91	20.97	12.72	5.00	1.51	30.16	0.74	0.29	39.08	22.41	4.35	19.43	80.58	10.52	13.05
Barely	56.73	11.11	19.58	*	*	*	*	*	*	1.42	0.69	48.46	23.33	5.48	23.47
Wheat	68.39	7.54	11.03	9.48	1.90	20.07	*	*	*	16.76	2.61	15.60	55.20	6.75	12.23
Maize	205.59	19.64	9.55	60.65	10.75	17.72	1.33	0.44	33.50	7.28	2.18	29.96	112.06	14.80	13.21
Sorghum	93.24	10.23	10.98	*	*	*	*	*	*	1.94	0.78	40.17	11.34	2.66	23.46
Millet	4.16	1.33	31.99	-	-	-	-	-	-	0.91	0.43	47.44	2.33	1.09	46.94
Oats	0.06	0.02	39.70	-	-	-	-	-	-	-	-	-	*	*	*
PULSES	99.63	10.16	10.20	0.14	0.07	47.13	0.26	0.09	32.95	2.60	0.88	33.78	33.31	4.67	14.03
Horse Beans	30.11	4.02	13.36	*	*	*	*	*	*	0.81	0.35	43.13	11.19	1.97	17.64
Chick Peas	22.20	3.88	17.50	*	*	*	*	*	*	*	*	*	0.61	0.24	39.43
Haricot Beans	38.02	5.48	14.41	*	*	*	0.24	0.09	34.87	*	*	*	15.58	3.62	23.21
Field Peas	*	*	*	-	-	-	-	-	-	*	*	*	5.50	1.55	28.11
Lentils	0.91	0.39	43.16	-	-	-	-	-	-	*	*	*	*	*	*
Vetch	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	2.30	0.66	28.65	-	-	-	-	-	-	*	*	*	*	*	*
Neug	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Lin Seed	0.52	0.18	33.75	-	-	-	-	-	-	*	*	*	0.11	0.04	41.11
Rape seed	0.22	0.06	25.69	-	-	-	-	-	-	-	-	-	0.13	0.05	36.54
Ground Nuts	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	0.35	0.11	30.13	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	88.44	8.05	9.10	0.23	0.09	39.85	0.23	0.09	41.39	1.28	0.41	32.40	45.17	4.34	9.61
Fenugreek	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Spices	17.90	3.63	20.29	*	*	*	*	*	*	*	*	*	8.53	1.88	21.99
Potatoes	12.10	2.42	20.00	-	-	-	*	*	*	*	*	*	8.80	1.80	20.45
Other Vegetables	58.17	6.11	10.50	0.19	0.09	44.53	0.19	0.08	43.62	0.53	0.22	41.17	27.69	3.08	11.12
ALL TEMPORARY	783.46	52.03	6.64	75.65	10.95	14.48	3.44	0.89	25.85	54.61	6.98	12.78	363.85	26.78	7.36
Chat	18.60	3.25	17.48	-	-	-	*	*	*	1.60	0.66	41.28	9.05	1.49	16.44
Coffee	82.96	9.17	11.06	5.14	2.32	45.07	0.90	0.22	24.51	0.82	0.24	29.44	29.09	3.26	11.21
Enset	179.32	11.69	6.52	-	-	-	0.71	0.18	24.83	1.75	0.49	27.92	130.92	9.72	7.42
Cotton	*	*	*	-	-	-	*	*	*	*	*	*	0.46	0.21	45.73
Tobacco	1.34	0.31	22.82	*	*	*	-	-	-	-	-	-	0.65	0.17	26.91
Fruits	8.99	2.69	29.87	-	-	-	*	*	*	*	*	*	2.58	0.51	19.88
Other Permanent	8.01	1.14	14.19	-	-	-	0.16	0.07	40.68	*	*	*	3.71	0.78	21.10
TOTAL PERMANENT	305.01	18.11	5.94	5.20	2.32	44.55	*	*	*	4.26	0.86	20.18	176.46	11.75	6.66
ALL CROPS	1,088.47	58.13	5.34	80.85	11.14	13.78	8.36	3.24	38.72	58.87	7.17	12.19	540.32	30.26	5.60

TABLE 1.9

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Gambela

	Total Area			Improved Seed Applied			Irrigation applied			Pesticide Applied			Fertilizer Applied		
TYPE OF CROP	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)
CEREALS	11.77	2.57	21.83	*	*	*	-	-	-	*	*	*	*	*	*
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	7.09	2.22	31.27	*	*	*	-	-	-	*	*	*	*	*	*
Sorghum	4.65	1.27	27.36	*	*	*	-	-	-	*	*	*	-	-	-
Millet	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.26	0.10	38.02	*	*	*	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	0.03	0.01	45.29	*	*	*	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	0.23	0.10	42.03	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0.97	0.34	35.59	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.78	0.27	34.61	-	-	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	13.04	2.73	20.90	*	*	*	-	-	-	*	*	*	*	*	*
Chat	0.03	0.01	39.54	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	2.36	0.98	41.41	*	*	*	-	-	-	*	*	*	-	-	-
Enset	0.27	0.11	40.20	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobaco	0.01	-	42.07	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.18	0.06	30.48	*	*	*	-	-	-	-	-	-	-	-	-
Other Permanent	0.08	0.02	29.30	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	2.94	1.09	37.04	*	*	*	-	-	-	*	*	*	-	-	-
ALL CROPS	15.98	3.31	20.74	*	*	*	-	-	-	*	*	*	*	*	*

TABLE 1.10

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Harari

TYPE OF CROP	Total Area			Improved Seed Applied			Irrigation applied			Pesticide Applied			Fertilizer Applied		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	5.56	0.42	7.57	0.37	0.07	18.47	0.22	0.04	20.37	0.97	0.17	17.16	3.88	0.38	9.84
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barely	0.03	0.01	33.39	-	-	-	-	-	-	-	-	-	0.03	0.01	34.33
Wheat	0.20	0.06	27.42	0.09	0.03	29.59	*	*	*	-	-	-	0.18	0.05	29.20
Maize	1.42	0.12	8.41	0.17	0.04	21.78	0.08	0.02	23.86	0.25	0.05	19.98	1.10	0.12	11.28
Sorghum	3.91	0.36	9.26	*	*	*	0.13	0.03	21.87	0.71	0.14	19.01	2.57	0.28	10.78
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
PULSES	0.02	0.01	24.12	-	-	-	-	-	-	-	-	-	0.01	-	29.31
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	0.02	0.01	28.96	-	-	-	-	-	-	-	-	-	0.01	-	33.00
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.98	0.24	24.28	-	-	-	*	*	*	*	*	*	0.32	0.09	27.05
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	0.98	0.24	24.29	-	-	-	*	*	*	*	*	*	0.32	0.09	27.06
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0.25	0.03	13.11	-	-	-	0.01	-	28.76	-	-	-	0.12	0.03	21.95
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Other Vegetables	0.22	0.03	12.40	-	-	-	0.01	-	28.76	-	-	-	0.10	0.02	18.40
ALL TEMPORARY	6.82	0.53	7.84	0.37	0.07	18.48	0.24	0.04	18.79	0.99	0.17	16.86	4.33	0.39	8.90
Chat	2.19	0.24	11.04	-	-	-	0.16	0.03	21.60	0.17	0.04	25.33	1.47	0.20	13.70
Coffee	0.02	0.01	35.96	-	-	-	*	*	*	-	-	-	0.01	-	39.10
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.12	0.04	34.47	-	-	-	0.04	0.02	46.58	-	-	-	0.02	0.01	33.38
Other Permanent	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
TOTAL PERMANENT	2.38	0.22	9.21	-	-	-	0.24	0.04	16.95	0.17	0.04	25.24	1.51	0.20	13.11
ALL CROPS	9.19	0.55	6.00	0.37	0.07	18.48	0.48	0.07	14.48	1.16	0.19	16.49	5.84	0.53	9.04

TABLE 1.11

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Addis Ababa

TYPE OF CROP	Total Area			Improved Seed Applied			Irrigation applied			Pesticide Applied			Fertilizer Applied		
	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	6.30	0.90	14.27	0.40	0.15	37.48	-	-	-	0.22	0.04	19.10	6.14	0.90	14.59
Teff	3.51	0.53	15.07	0.16	0.07	41.94	-	-	-	0.17	0.04	22.98	3.47	0.52	15.01
Barely	0.15	0.07	46.84	-	-	-	-	-	-	-	-	-	*	*	*
Wheat	2.61	0.41	15.63	0.24	0.09	35.61	-	-	-	0.05	0.02	47.20	2.59	0.41	15.80
Maize	0.02	-	25.46	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	0.01	0.01	47.95	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	1.65	0.35	21.19	-	-	-	-	-	-	-	-	-	*	*	*
Horse Beans	0.06	0.02	37.46	-	-	-	-	-	-	-	-	-	0.01	-	32.77
Chick Peas	0.01	-	33.19	-	-	-	-	-	-	-	-	-	*	*	*
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	0.64	0.15	22.97	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	0.11	0.02	18.36	-	-	-	-	-	-	-	-	-	0.04	0.01	24.74
Vetch	0.82	0.20	24.54	-	-	-	-	-	-	-	-	-	*	*	*
OILSEEDS	0.01	-	35.36	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	0.01	-	39.38	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0.24	0.06	25.03	0.10	0.04	43.34	*	*	*	-	-	-	0.14	0.05	34.53
Fenugreek	0.08	0.02	25.64	-	-	-	-	-	-	-	-	-	0.03	0.01	43.85
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.14	0.05	39.96	0.10	0.04	43.34	*	*	*	-	-	-	0.11	0.05	43.56
ALL TEMPORARY	8.19	1.26	15.36	0.50	0.15	29.53	*	*	*	0.22	0.04	18.84	6.85	1.18	17.23
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	0.01	-	31.29	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.01	-	29.48	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	8.20	1.26	15.34	0.50	0.15	29.53	*	*	*	0.22	0.04	18.84	6.86	1.18	17.22

TABLE 1.12

ESTIMATES OF TOTAL AREA, IMPROVED SEED, IRRIGATION, PESTICIDE AND FERTILIZER APPLIED AREA  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Dire Dawa

TYPE OF CROP	Total Area			Improved Seed Applied			Irrigation applied			Pesticide Applied			Fertilizer Applied		
	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	5.91	0.50	8.53	1.58	0.25	15.55	0.48	0.09	19.26	*	*	*	1.26	0.25	20.16
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Maize	0.30	0.06	18.60	*	*	*	0.09	0.03	33.91	-	-	-	0.09	0.02	28.74
Sorghum	5.59	0.49	8.71	1.55	0.25	15.79	0.40	0.08	19.71	0.14	0.07	49.84	1.17	0.24	20.83
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	0.19	0.05	26.44	*	*	*	*	*	*	-	-	-	0.04	0.01	29.30
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	0.19	0.05	26.44	*	*	*	*	*	*	-	-	-	0.04	0.01	29.30
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.01	-	47.11	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	0.01	-	47.19	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0.18	0.03	19.04	-	-	-	0.09	0.02	26.76	-	-	-	0.04	0.01	32.61
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.18	0.03	18.81	-	-	-	0.09	0.02	26.55	-	-	-	0.04	0.01	32.61
ALL TEMPORARY	6.29	0.52	8.30	1.60	0.25	15.38	0.58	0.11	18.14	0.14	0.07	49.75	1.35	0.26	19.14
Chat	0.62	0.10	15.97	-	-	-	0.15	0.03	20.97	-	-	-	0.13	0.03	24.45
Coffee	0.07	0.03	36.48	-	-	-	0.07	0.02	35.36	-	-	-	*	*	*
Enset	*	*	*	-	-	-	*	*	*	*	*	*	*	*	*
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobaco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.14	0.07	47.46	-	-	-	*	*	*	*	*	*	*	*	*
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.84	0.11	13.28	-	-	-	0.34	0.08	23.12	*	*	*	0.22	0.05	25.13
ALL CROPS	7.13	0.55	7.73	1.60	0.25	15.35	0.92	0.17	18.18	0.16	0.07	43.55	1.56	0.29	18.43

TABLE 2.1

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

National

	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
TYPE OF CROP	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	3,004.01	126.89	4.22	440.66	36.05	8.18	1,025.84	79.33	7.73	120.00	10.77	8.98	1,324.62	77.39	5.84	92.88	13.48	14.51
Teff	1,124.80	67.83	6.03	49.35	21.81	44.19	364.51	29.34	8.05	64.77	9.69	14.96	621.54	47.61	7.66	24.62	4.94	20.07
Barely	320.28	41.43	12.94	51.17	6.78	13.26	193.91	37.03	19.09	7.80	1.50	19.21	55.55	7.05	12.69	11.86	4.63	39.01
Wheat	669.45	70.48	10.53	22.37	2.75	12.28	264.91	48.21	18.20	14.69	1.76	11.98	350.34	43.93	12.54	17.14	4.54	26.49
Maize	640.70	42.11	6.57	251.00	26.46	10.54	104.00	12.43	11.95	20.66	4.09	19.81	237.39	20.85	8.78	27.65	3.48	12.58
Sorghum	101.31	11.76	11.61	61.03	7.65	12.53	7.03	1.80	25.61	6.82	1.40	20.47	17.45	3.20	18.33	8.99	3.10	34.43
Millet	134.22	17.77	13.24	4.88	0.90	18.33	81.31	13.94	17.15	5.19	1.55	29.85	40.27	6.50	16.14	2.57	0.82	31.90
Oats	13.25	3.18	24.02	0.85	0.23	26.62	10.18	2.69	26.47	*	*	*	*	*	*	*	*	*
PULSES	138.32	17.48	12.64	43.34	7.64	17.63	69.67	12.14	17.42	4.24	1.02	23.97	17.57	3.50	19.90	3.51	1.04	29.65
Horse Beans	69.63	12.24	17.58	27.87	7.36	26.40	32.18	7.34	22.82	1.36	0.40	29.44	6.44	1.75	27.23	1.78	0.75	42.19
Chick Peas	3.66	0.78	21.20	2.66	0.44	16.53	21.53	6.71	31.16	*	*	*	2.30	0.78	33.79	*	*	*
Haricot Beans	28.55	4.97	17.42	10.61	1.86	17.55	11.59	3.21	27.67	2.31	0.91	39.43	2.88	0.84	29.07	1.16	0.48	41.24
Field Peas	27.15	7.60	28.01	1.25	0.40	31.89	1.14	0.49	42.89	*	*	*	0.87	0.27	30.93	*	*	*
Lentils	8.09	2.67	33.00	0.60	0.27	44.55	2.68	0.92	34.40	*	*	*	*	*	*	*	*	*
Vetch	1.24	0.34	27.66	0.35	0.13	37.46	0.56	0.26	45.65	-	-	-	0.32	0.15	47.69	-	-	-
OILSEEDS	31.83	4.95	15.56	10.56	1.48	14.05	14.05	3.78	26.89	1.25	0.38	30.31	5.42	1.16	21.36	0.54	0.13	23.81
Neug	10.02	2.80	28.01	3.59	1.06	29.49	4.21	1.92	45.48	*	*	*	1.62	0.58	35.93	*	*	*
Lin Seed	4.52	1.06	23.40	0.45	0.13	29.99	2.91	0.94	32.29	0.13	0.06	46.52	1.01	0.45	44.99	*	*	*
Rape seed	11.99	3.11	25.95	4.46	0.72	16.03	5.48	2.71	49.53	0.20	0.09	43.67	1.47	0.49	33.12	0.38	0.11	29.97
Ground Nuts	1.88	0.80	42.63	1.20	0.54	44.65	*	*	*	*	*	*	*	*	*	*	*	*
Sun Flower	0.74	0.22	29.16	0.12	0.05	38.61	*	*	*	*	*	*	0.32	0.13	39.04	*	*	*
Sesame	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	104.64	6.87	6.56	66.74	4.56	6.84	14.87	2.13	14.35	5.10	0.87	17.04	14.64	2.67	18.21	3.29	0.70	21.34
Fenugreek	1.66	0.33	20.20	0.51	0.11	21.31	0.36	0.14	39.97	*	*	*	0.72	0.22	30.57	-	-	-
Spices	20.78	2.63	12.68	9.79	1.37	14.01	4.30	1.07	24.94	2.38	0.64	26.83	4.12	1.08	26.31	0.18	0.08	42.14
Potatoes	27.94	4.05	14.48	13.02	1.85	14.22	6.35	1.57	24.78	1.04	0.33	31.35	5.76	2.06	35.80	1.76	0.50	28.34
Other Vegetables	54.26	4.20	7.74	43.43	3.38	7.79	3.86	0.86	22.24	1.60	0.40	24.84	4.03	1.16	28.76	1.34	0.38	28.18
ALL TEMPORARY	3,278.80	135.28	4.13	561.30	38.41	6.84	1,124.43	85.67	7.62	130.60	11.10	8.50	1,362.25	79.32	5.82	100.21	13.78	13.75
Chat	31.95	3.48	10.90	22.25	2.16	9.72	1.08	0.27	24.67	2.15	0.53	24.76	2.85	1.03	35.97	3.62	1.34	37.03
Coffee	39.50	3.80	9.62	33.75	2.97	8.80	2.18	0.62	28.29	1.28	0.42	32.56	1.36	0.36	26.44	0.92	0.33	36.21
Enset	178.90	19.07	10.66	176.56	18.73	10.61	0.50	0.16	31.72	*	*	*	*	*	*	*	*	*
Cotton	1.75	0.86	49.19	0.53	0.21	39.83	*	*	*	*	*	*	*	*	*	-	-	-
Tobacco	1.44	0.23	15.85	1.28	0.19	14.87	*	*	*	*	*	*	*	*	*	*	*	*
Fruits	4.27	0.63	14.65	3.58	0.52	14.39	0.34	0.13	38.64	0.06	0.02	36.26	*	*	*	0.16	0.07	46.20
Other Permanent	7.93	1.01	12.74	7.13	0.94	13.18	0.22	0.07	29.51	0.15	0.07	45.72	*	*	*	0.17	0.08	46.09
TOTAL PERMANENT	265.73	20.66	7.78	245.08	19.58	7.99	4.42	0.91	20.64	4.73	1.05	22.22	5.22	1.18	22.59	6.28	1.81	28.87
ALL CROPS	3,544.53	137.51	3.88	806.39	43.87	5.44	1,128.85	85.68	7.59	135.33	11.26	8.32	1,367.47	79.34	5.80	106.50	14.23	13.37

TABLE 2.2

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Tigray

TYPE OF CROP	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	199.35	27.78	13.93	75.01	23.80	31.74	8.15	1.74	21.39	4.35	0.86	19.67	97.55	9.32	9.55	14.29	3.34	23.34
Teff	54.16	7.49	13.83	3.19	0.65	20.54	2.11	0.63	29.88	1.56	0.68	43.82	44.73	6.57	14.70	2.57	0.92	35.69
Barely	33.58	4.51	13.44	13.43	2.91	21.68	2.02	0.66	32.68	1.32	0.41	30.73	14.15	2.11	14.94	2.65	1.10	41.33
Wheat	30.29	4.01	13.25	5.97	1.12	18.76	2.25	0.73	32.23	1.20	0.31	25.76	18.78	2.75	14.66	2.08	0.65	31.15
Maize	49.36	23.30	47.21	*	*	*	*	*	*	*	*	*	5.59	1.72	30.77	4.42	1.84	41.55
Sorghum	14.30	4.03	28.14	10.61	3.47	32.71	*	*	*	*	*	*	2.45	0.74	29.99	0.83	0.34	41.57
Millet	17.66	3.51	19.86	2.65	0.63	23.68	*	*	*	0.23	0.11	49.58	11.85	2.81	23.70	1.73	0.71	40.82
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	2.89	0.48	16.72	2.02	0.37	18.39	0.08	0.04	48.43	*	*	*	0.66	0.23	34.66	*	*	*
Horse Beans	1.93	0.41	21.03	1.36	0.32	23.19	*	*	*	*	*	*	0.44	0.14	32.51	*	*	*
Chick Peas	0.30	0.13	41.14	0.27	0.09	34.42	-	-	-	*	*	*	*	*	*	-	-	-
Haricot Beans	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	0.38	0.11	29.74	0.25	0.12	46.55	*	*	*	*	*	*	-	-	-	-	-	-
Lentils	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Vetch	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
OILSEEDS	*	*	*	*	*	*	*	*	*	-	-	-	0.31	0.13	40.23	*	*	*
Neug	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	0.33	0.11	34.40	0.12	0.05	43.15	-	-	-	-	-	-	0.21	0.10	46.37	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	*	*	*
Sesame	*	*	*	*	*	*	*	*	*	-	-	-	*	*	*	*	*	*
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0.28	0.08	28.28	0.18	0.06	35.93	-	-	-	*	*	*	0.04	0.02	45.54	*	*	*
Fenugreek	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*	-	-	-
Spices	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-	*	*	*
Potatoes	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
Other Vegetables	0.12	0.04	33.39	0.06	0.02	40.05	-	-	-	*	*	*	*	*	*	-	-	-
ALL TEMPORARY	204.66	27.90	13.63	77.87	23.93	30.73	9.38	2.12	22.64	4.48	0.86	19.27	98.56	9.41	9.55	14.37	3.35	23.33
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	*	*	*	0.12	0.06	49.62	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.14	0.06	46.29	0.13	0.06	45.54	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	204.80	27.90	13.62	78.00	23.93	30.68	9.38	2.12	22.64	4.48	0.86	19.27	98.56	9.41	9.55	14.37	3.35	23.32



TABLE 2.3

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Afar

TYPE OF CROP	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	0.83	0.27	31.91	0.63	0.24	38.15	0.06	0.02	24.28	*	*	*	-	-	-	-	-	-
Teff	0.34	0.16	48.04	*	*	*	0.06	0.02	34.26	*	*	*	-	-	-	-	-	-
Barely	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	0.21	0.08	37.56	0.21	0.08	36.71	*	*	*	*	*	*	-	-	-	-	-	-
Sorghum	0.24	0.11	47.62	0.23	0.11	49.10	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	*	*	*	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
Sesame	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	-	-	-	*	*	*	*	*	*	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	*	*	*	-	-	-	*	*	*	*	*	*	-	-	-	-	-	-
ALL TEMPORARY	0.95	0.29	30.35	0.68	0.26	38.31	0.08	0.01	10.66	0.17	0.07	40.38	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	0.95	0.29	30.36	0.68	0.26	38.31	0.08	0.01	10.66	0.17	0.07	40.38	-	-	-	-	-	-

TABLE 2.4

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Amhara

TYPE OF CROP	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	886.95	69.65	7.85	148.15	23.04	15.55	208.98	25.27	12.09	47.09	5.57	11.83	463.06	52.59	11.36	19.68	3.09	15.70
Teff	417.69	40.99	9.81	*	*	*	109.86	16.21	14.76	33.09	5.21	15.75	232.81	24.92	10.70	6.42	1.61	25.07
Barely	43.09	7.01	16.27	16.36	2.56	15.67	11.33	3.38	29.79	1.73	0.44	25.27	13.06	3.73	28.55	0.61	0.27	44.46
Wheat	144.95	37.84	26.10	7.29	1.64	22.55	7.83	2.01	25.64	4.74	0.96	20.18	122.01	37.16	30.46	3.08	0.91	29.52
Maize	170.79	17.39	10.18	79.10	8.39	10.61	14.55	3.97	27.28	2.40	0.74	31.05	66.20	10.61	16.02	8.54	2.12	24.85
Sorghum	15.11	4.03	26.68	8.36	2.56	30.62	*	*	*	0.66	0.27	40.72	4.65	2.03	43.61	*	*	*
Millet	94.48	16.22	17.17	0.98	0.31	31.49	64.18	13.05	20.33	4.47	1.54	34.38	24.07	5.43	22.56	*	*	*
Oats	0.84	0.27	32.24	0.55	0.19	35.24	-	-	-	-	-	-	*	*	*	*	*	*
PULSES	25.70	7.62	29.64	14.97	7.05	47.07	4.52	1.16	25.68	0.63	0.24	38.72	5.13	2.51	48.99	0.44	0.20	44.53
Horse Beans	16.16	7.17	44.40	*	*	*	2.32	0.71	30.37	0.45	0.21	45.33	0.97	0.34	35.47	*	*	*
Chick Peas	0.83	0.34	41.36	0.81	0.28	34.16	1.83	0.81	44.35	*	*	*	*	*	*	*	*	*
Haricot Beans	1.47	0.49	33.56	1.14	0.41	36.14	*	*	*	*	*	*	*	*	*	-	-	-
Field Peas	2.99	0.96	32.02	*	*	*	-	-	-	-	-	-	0.31	0.15	46.78	*	*	*
Lentils	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Vetch	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
OILSEEDS	15.88	3.60	22.66	5.85	1.21	20.62	5.57	2.28	40.87	0.92	0.36	39.09	3.21	0.95	29.51	0.33	0.10	30.54
Neug	7.77	2.74	35.25	2.32	0.97	41.84	3.89	1.91	49.08	*	*	*	1.04	0.45	43.21	*	*	*
Lin Seed	0.80	0.32	40.15	0.13	0.06	47.69	*	*	*	*	*	*	*	*	*	-	-	-
Rape seed	5.93	1.32	22.28	3.19	0.65	20.37	1.15	0.48	42.01	0.12	0.05	42.86	1.19	0.47	39.43	0.28	0.09	33.60
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	0.57	0.19	33.93	0.09	0.04	47.67	*	*	*	*	*	*	0.24	0.11	46.31	*	*	*
Sesame	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	19.46	2.69	13.80	12.49	1.74	13.95	2.27	1.11	48.98	1.29	0.51	39.62	2.37	0.68	28.67	1.05	0.41	39.01
Fenugreek	0.27	0.13	45.74	0.08	0.03	33.11	-	-	-	*	*	*	*	*	*	-	-	-
Spices	7.99	1.51	18.94	5.32	1.00	18.85	0.18	0.08	43.60	1.03	0.50	48.59	1.37	0.59	42.76	0.09	0.04	48.72
Potatoes	6.51	1.77	27.27	3.80	0.92	24.21	*	*	*	*	*	*	*	*	*	*	*	*
Other Vegetables	4.69	0.83	17.80	3.28	0.71	21.57	0.54	0.21	39.64	0.14	0.05	35.59	0.39	0.16	41.63	*	*	*
ALL TEMPORARY	948.00	73.42	7.75	181.46	24.78	13.66	221.34	26.72	12.07	49.92	5.67	11.35	473.77	54.71	11.55	21.50	3.26	15.17
Chat	0.73	0.35	48.32	0.73	0.35	48.06	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	1.63	0.48	29.42	1.61	0.47	29.40	-	-	-	*	*	*	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-
Tobacco	0.03	0.01	45.53	0.03	0.01	45.19	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.32	0.12	36.70	0.32	0.12	36.80	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	2.06	0.42	20.29	1.97	0.39	19.94	*	*	*	*	*	*	-	-	-	*	*	*
TOTAL PERMANENT	6.06	1.21	19.94	4.73	0.87	18.40	*	*	*	*	*	*	*	*	*	*	*	*
ALL CROPS	954.05	73.45	7.70	186.19	24.81	13.33	221.37	26.72	12.07	50.78	5.70	11.23	474.15	54.70	11.54	21.55	3.27	15.16

TABLE 2.5

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Oromia

	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
TYPE OF CROP	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	1,601.70	99.62	6.22	163.39	12.48	7.64	672.84	74.33	11.05	54.46	8.95	16.43	659.07	54.67	8.29	51.93	12.63	24.32
Teff	563.29	52.41	9.30	8.30	1.90	22.95	196.97	23.39	11.88	24.20	7.98	32.98	319.09	39.80	12.47	14.73	4.57	31.04
Barely	218.96	40.20	18.36	15.69	5.09	32.44	167.57	36.64	21.87	3.94	1.28	32.39	23.42	5.20	22.19	*	*	*
Wheat	435.60	58.93	13.53	7.08	1.62	22.92	224.60	47.98	21.36	7.56	1.41	18.60	185.44	23.06	12.43	10.92	4.36	39.98
Maize	297.61	26.48	8.90	100.64	8.64	8.59	55.78	10.74	19.26	13.65	3.93	28.82	116.98	15.13	12.93	10.57	1.81	17.13
Sorghum	55.51	9.93	17.89	30.43	5.78	18.99	3.88	1.33	34.27	4.79	1.32	27.49	9.10	2.35	25.79	7.31	3.07	41.94
Millet	18.39	6.23	33.86	*	*	*	13.89	4.80	34.55	*	*	*	*	*	*	*	*	*
Oats	12.34	3.17	25.69	0.27	0.12	43.28	10.16	2.69	26.51	*	*	*	*	*	*	*	*	*
PULSES	75.08	15.01	19.99	16.62	2.30	13.82	46.15	11.65	25.24	1.78	0.49	27.62	8.23	2.28	27.64	2.30	0.97	42.45
Horse Beans	39.97	9.71	24.28	11.49	1.99	17.36	22.62	7.14	31.56	0.76	0.34	44.34	3.86	1.68	43.58	*	*	*
Chick Peas	1.59	0.63	39.28	0.92	0.25	26.88	14.93	6.48	43.40	-	-	-	1.89	0.77	40.53	*	*	*
Haricot Beans	11.34	3.38	29.79	3.75	0.75	19.97	5.40	2.56	47.48	0.74	0.33	44.24	0.83	0.40	47.74	*	*	*
Field Peas	18.10	7.38	40.78	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lentils	3.46	0.97	27.94	*	*	*	2.05	0.87	42.58	-	-	-	1.21	0.40	32.61	-	-	-
Vetch	0.62	0.26	42.07	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
OILSEEDS	12.05	3.14	26.05	2.80	0.66	23.59	7.19	2.79	38.79	0.26	0.12	45.36	1.63	0.61	37.24	0.17	0.08	46.19
Neug	1.21	0.41	34.15	0.49	0.23	46.43	*	*	*	*	*	*	*	*	*	*	*	*
Lin Seed	3.25	1.00	30.74	*	*	*	2.34	0.89	37.97	-	-	-	*	*	*	*	*	*
Rape seed	5.91	2.82	47.70	1.18	0.30	25.48	*	*	*	*	*	*	0.28	0.13	46.96	*	*	*
Ground Nuts	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sun Flower	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sesame	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	38.25	4.59	11.99	20.30	2.28	11.24	6.01	1.37	22.77	2.22	0.59	26.74	7.80	2.33	29.83	1.92	0.56	29.36
Fenugreek	1.18	0.29	24.36	0.38	0.10	27.22	0.28	0.14	47.74	*	*	*	0.50	0.20	39.04	-	-	-
Spices	3.64	1.05	28.76	2.42	0.74	30.70	0.55	0.21	38.43	*	*	*	*	*	*	*	*	*
Potatoes	12.28	3.15	25.68	3.12	0.59	18.98	3.19	1.13	35.60	0.86	0.32	37.25	4.04	1.98	49.14	1.08	0.39	35.63
Other Vegetables	21.14	2.73	12.91	14.38	1.95	13.53	1.98	0.68	34.16	0.88	0.30	34.47	3.07	1.14	37.10	0.83	0.28	33.25
ALL TEMPORARY	1,727.08	106.68	6.18	203.11	14.26	7.02	732.19	80.31	10.97	58.73	9.20	15.67	676.74	55.21	8.16	56.31	12.89	22.89
Chat	19.90	3.09	15.50	12.75	1.65	12.96	0.51	0.17	33.29	1.42	0.49	34.64	2.22	1.02	45.74	3.00	1.33	44.39
Coffee	8.59	1.89	21.96	7.36	1.69	22.94	0.34	0.15	42.88	*	*	*	0.50	0.19	38.20	*	*	*
Enset	47.96	16.41	34.21	47.81	16.32	34.13	*	*	*	-	-	-	*	*	*	*	*	*
Cotton	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*
Tobacco	0.75	0.15	19.53	0.73	0.14	19.72	-	-	-	-	-	-	-	-	-	*	*	*
Fruits	1.20	0.33	27.70	0.94	0.20	21.26	*	*	*	*	*	*	*	*	*	*	*	*
Other Permanent	2.00	0.48	23.81	1.74	0.41	23.33	*	*	*	-	-	-	*	*	*	*	*	*
TOTAL PERMANENT	80.42	16.94	21.07	71.34	16.61	23.29	1.08	0.27	25.33	1.58	0.49	31.29	3.00	1.07	35.55	3.41	1.33	39.07
ALL CROPS	1,807.50	108.56	6.01	274.45	22.97	8.37	733.27	80.31	10.95	60.31	9.34	15.48	679.74	55.24	8.13	59.73	13.32	22.29

TABLE 2.6

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Somale

TYPE OF CROP	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barely	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	0.50	0.22	43.98	0.47	0.21	45.13	-	-	-	-	-	-	*	*	*	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
Fenugreek	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
ALL TEMPORARY	*	*	*	*	*	*	-	-	-	*	*	*	*	*	*	-	-	-
Chat	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobaco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	*	*	*	-	-	-	*	*	*	*	*	*	-	-	-

TABLE 2.7

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Benshangul-Gumuz

	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
TYPE OF CROP	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	16.88	4.62	27.38	6.98	2.48	35.57	6.55	2.64	40.31	0.37	0.10	28.22	2.62	0.76	28.93	*	*	*
Teff	5.27	2.54	48.26	*	*	*	3.92	1.81	46.23	*	*	*	*	*	*	*	*	*
Barely	*	*	*	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
Wheat	*	*	*	*	*	*	*	*	*	-	-	-	*	*	*	-	-	-
Maize	7.94	2.51	31.67	5.72	2.44	42.57	*	*	*	0.10	0.05	47.02	1.54	0.35	22.82	*	*	*
Sorghum	0.57	0.25	43.01	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-
Millet	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
Oats	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	0.51	0.23	44.29	*	*	*	-	-	-	-	-	-	-	-	-
Horse Beans	*	*	*	0.29	0.14	49.76	*	*	*	-	-	-	-	-	-	-	-	-
Chick Peas	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Haricot Beans	0.04	0.02	48.09	0.04	0.02	48.21	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Lentils	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.88	0.38	42.52	0.88	0.37	42.07	-	-	-	-	-	-	-	-	-	-	-	-
Neug	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	1.02	0.29	28.29	0.62	0.19	29.96	*	*	*	0.14	0.07	48.45	*	*	*	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	0.49	0.16	31.86	0.25	0.08	34.45	*	*	*	0.14	0.07	48.74	*	*	*	-	-	-
Potatoes	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Other Vegetables	0.23	0.07	31.73	0.18	0.06	33.95	*	*	*	-	-	-	*	*	*	-	-	-
ALL TEMPORARY	19.45	5.33	27.43	9.00	3.01	33.40	6.86	2.84	41.40	0.51	0.13	25.22	2.72	0.76	27.75	*	*	*
Chat	0.01	-	49.41	0.01	-	48.98	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.04	0.01	23.03	0.04	0.01	21.83	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.25	0.09	37.84	0.25	0.09	37.25	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	19.69	5.33	27.09	9.25	3.00	32.47	6.86	2.84	41.40	0.51	0.13	25.22	2.72	0.76	27.75	*	*	*

TABLE 2.8

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

(S.N.N.P.R)

TYPE OF CROP	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	284.87	23.00	8.07	42.20	6.17	14.62	128.91	10.98	8.52	12.51	2.04	16.31	95.60	12.10	12.66	5.65	1.28	22.69
Teff	80.58	10.52	13.05	1.81	0.54	29.82	51.51	6.87	13.34	5.60	1.58	28.22	20.91	4.26	20.37	0.76	0.29	38.58
Barely	23.33	5.48	23.47	5.51	2.24	40.73	12.18	3.97	32.61	*	*	*	4.59	2.06	44.83	0.26	0.12	47.46
Wheat	55.20	6.75	12.23	*	*	*	29.70	4.22	14.22	1.13	0.33	28.95	21.54	3.13	14.55	*	*	*
Maize	112.06	14.80	13.21	24.30	3.83	15.77	33.13	4.83	14.57	4.20	0.85	20.33	46.88	9.50	20.26	3.55	0.96	27.18
Sorghum	11.34	2.66	23.46	8.69	2.51	28.89	1.38	0.30	22.03	*	*	*	0.56	0.21	36.76	*	*	*
Millet	2.33	1.09	46.94	*	*	*	0.99	0.36	36.78	0.17	0.07	43.20	*	*	*	*	*	*
Oats	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PULSES	33.31	4.67	14.03	9.13	1.78	19.55	18.42	3.19	17.34	1.73	0.85	49.33	3.32	0.82	24.57	0.71	0.30	41.93
Horse Beans	11.19	1.97	17.64	2.62	0.55	20.95	7.10	1.57	22.18	0.14	0.07	47.13	1.17	0.34	28.78	0.17	0.07	44.12
Chick Peas	0.61	0.24	39.43	0.56	0.21	37.09	4.69	1.52	32.40	0.04	0.02	49.07	0.21	0.07	34.04	*	*	*
Haricot Beans	15.58	3.62	23.21	5.59	1.65	29.63	6.11	1.93	31.49	*	*	*	1.80	0.71	39.36	*	*	*
Field Peas	5.50	1.55	28.11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lentils	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	*	*	*	0.09	0.03	29.66	0.12	0.05	42.93	*	*	*	*	*	*	*	*	*
Neug	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*	-	-	-
Lin Seed	0.11	0.04	41.11	-	-	-	*	*	*	*	*	*	*	*	*	-	-	-
Rape seed	0.13	0.05	36.54	0.08	0.03	32.15	*	*	*	-	-	-	-	-	-	*	*	*
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	45.17	4.34	9.61	32.97	3.54	10.74	6.34	1.20	18.89	1.35	0.37	27.50	4.24	1.11	26.18	0.27	0.07	27.09
Fenugreek	*	*	*	0.03	0.01	49.56	*	*	*	-	-	-	*	*	*	-	-	-
Spices	8.53	1.88	21.99	1.70	0.56	32.91	3.52	1.05	29.77	0.74	0.28	37.25	2.49	0.91	36.37	*	*	*
Potatoes	8.80	1.80	20.45	5.89	1.49	25.28	1.51	0.45	29.64	0.12	0.06	46.10	1.24	0.51	41.21	0.05	0.02	35.79
Other Vegetables	27.69	3.08	11.12	25.36	2.68	10.55	1.26	0.48	37.96	*	*	*	0.44	0.16	35.85	0.15	0.04	23.63
ALL TEMPORARY	363.85	26.78	7.36	84.39	8.56	10.14	153.80	12.80	8.32	15.60	2.39	15.32	103.43	12.64	12.22	6.65	1.40	21.03
Chat	9.05	1.49	16.44	7.68	1.26	16.36	0.54	0.21	38.29	*	*	*	0.26	0.12	45.70	*	*	*
Coffee	29.09	3.26	11.21	24.60	2.39	9.73	1.84	0.60	32.63	1.13	0.41	36.40	0.86	0.31	35.53	0.67	0.31	45.83
Enset	130.92	9.72	7.42	128.73	9.20	7.15	0.43	0.15	34.84	*	*	*	*	*	*	*	*	*
Cotton	0.46	0.21	45.73	0.45	0.21	45.84	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	0.65	0.17	26.91	0.51	0.12	24.28	*	*	*	*	*	*	*	*	*	*	*	*
Fruits	2.58	0.51	19.88	2.18	0.46	21.07	0.25	0.10	38.45	*	*	*	0.04	0.02	43.26	*	*	*
Other Permanent	3.71	0.78	21.10	3.28	0.75	22.83	0.14	0.05	35.46	*	*	*	*	*	*	*	*	*
TOTAL PERMANENT	176.46	11.75	6.66	167.43	10.31	6.16	3.27	0.87	26.60	1.91	0.68	35.62	1.46	0.44	30.06	*	*	*
ALL CROPS	540.32	30.26	5.60	251.82	13.99	5.56	157.06	12.86	8.19	17.51	2.48	14.17	104.88	12.67	12.08	9.03	1.87	20.70

TABLE 2.9

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Gambela

TYPE OF CROP	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	*	*	*	-	-	-	0.04	-	-	-	-	-	0.02	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	*	*	*	-	-	-	0.04	-	-	-	-	-	0.02	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	*	*	*	-	-	-	0.04	-	-	-	-	-	0.02	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	*	*	*	-	-	-	0.04	-	-	-	-	-	0.02	-	-	-	-	-

TABLE 2.10

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Harari

TYPE OF CROP	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	3.88	0.38	9.84	1.13	0.18	15.61	0.09	0.04	40.49	0.94	0.15	16.04	0.82	0.17	21.06	0.90	0.21	23.34
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barely	0.03	0.01	34.33	-	-	-	*	*	*	-	-	-	0.01	-	36.13	-	-	-
Wheat	0.18	0.05	29.20	-	-	-	*	*	*	-	-	-	0.09	0.02	27.42	0.04	0.02	41.45
Maize	1.10	0.12	11.28	0.33	0.05	14.97	0.02	0.01	39.90	0.24	0.04	18.13	0.19	0.04	22.14	0.31	0.10	30.59
Sorghum	2.57	0.28	10.78	0.79	0.15	18.34	0.05	0.02	40.51	0.65	0.11	17.41	0.53	0.11	21.10	0.54	0.12	21.77
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	0.01	-	29.31	-	-	-	-	-	-	*	*	*	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	0.01	-	33.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.32	0.09	27.05	0.23	0.07	30.39	*	*	*	0.05	0.02	41.96	*	*	*	0.01	0.01	41.43
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	0.32	0.09	27.06	0.23	0.07	30.39	*	*	*	0.05	0.02	41.96	*	*	*	0.01	0.01	41.43
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0.12	0.03	21.95	0.04	0.01	25.27	*	*	*	0.02	0.01	29.59	0.02	0.01	42.18	0.03	0.01	28.68
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-	*	*	*
Other Vegetables	0.10	0.02	18.40	0.04	0.01	26.13	-	-	-	0.02	0.01	31.62	0.02	0.01	49.45	0.02	0.01	28.60
ALL TEMPORARY	4.33	0.39	8.90	1.40	0.22	15.76	0.12	0.05	42.82	1.02	0.16	15.54	0.84	0.18	20.75	0.95	0.21	22.63
Chat	1.47	0.20	13.70	0.30	0.05	16.77	0.03	0.01	35.60	0.35	0.06	18.33	0.37	0.07	19.97	0.41	0.10	23.19
Coffee	0.01	-	39.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	0.02	0.01	33.38	0.02	0.01	38.85	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	1.51	0.20	13.11	0.32	0.05	15.95	0.04	0.01	33.57	0.36	0.06	18.10	0.38	0.07	19.50	0.42	0.10	23.01
ALL CROPS	5.84	0.53	9.04	1.72	0.25	14.43	0.16	0.06	40.47	1.38	0.20	14.77	1.22	0.24	19.86	1.36	0.31	22.42



TABLE 2.11

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000 (1992 E.C.)

Addis Ababa

	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
TYPE OF CROP	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	6.14	0.90	14.59	0.03	0.01	34.24	0.19	0.05	28.25	0.05	0.01	23.83	5.80	0.91	15.61	0.07	0.03	38.47
Teff	3.47	0.52	15.01	-	-	-	0.07	0.02	26.15	0.02	0.01	32.35	3.33	0.52	15.71	*	*	*
Barely	*	*	*	*	*	*	*	*	*	-	-	-	0.01	0.01	48.58	-	-	-
Wheat	2.59	0.41	15.80	0.02	0.01	39.10	0.07	0.02	24.95	0.02	0.01	34.44	2.46	0.41	16.57	0.03	0.01	43.49
Maize	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	0.01	-	29.75	*	*	*	-	-	-	0.22	0.10	45.62	-	-	-
Horse Beans	0.01	-	32.77	0.01	-	34.86	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	*	*	*	-	-	-	*	*	*	-	-	-
Lentils	0.04	0.01	24.74	-	-	-	0.02	0.01	38.11	-	-	-	0.02	0.01	30.39	-	-	-
Vetch	*	*	*	-	-	-	*	*	*	-	-	-	*	*	*	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0.14	0.05	34.53	-	-	-	*	*	*	-	-	-	0.07	0.02	26.74	-	-	-
Fenugreek	0.03	0.01	43.85	-	-	-	*	*	*	-	-	-	0.01	-	31.75	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.11	0.05	43.56	-	-	-	*	*	*	-	-	-	0.06	0.02	31.66	-	-	-
ALL TEMPORARY	6.85	1.18	17.23	0.04	0.01	28.96	0.59	0.20	33.88	0.05	0.01	20.35	6.10	1.00	16.45	0.07	0.03	37.33
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	6.86	1.18	17.22	0.05	0.01	29.30	0.59	0.20	33.88	0.05	0.01	20.33	6.10	1.00	16.45	0.07	0.03	37.33

TABLE 2.12

ESTIMATES OF FERTILIZER APPLIED AREA BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Dire Dawa

TYPE OF CROP	Total			Natural Fertilizer			DAP			UREA			DAP + UREA			NAT + COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	1.26	0.25	20.16	1.11	0.22	19.59	0.02	0.01	40.55	0.08	0.02	30.02	0.03	0.01	36.29	*	*	*
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	0.09	0.02	28.74	0.07	0.02	30.58	-	-	-	0.01	0.01	47.35	-	-	-	-	-	-
Sorghum	1.17	0.24	20.83	1.04	0.21	20.38	0.02	0.01	40.55	0.07	0.02	31.26	0.03	0.01	36.29	*	*	*
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	0.04	0.01	29.30	0.04	0.01	29.52	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	0.04	0.01	29.30	0.04	0.01	29.52	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0.04	0.01	32.61	0.04	0.01	32.49	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.04	0.01	32.61	0.04	0.01	32.49	-	-	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	1.35	0.26	19.14	1.19	0.22	18.64	0.03	0.01	33.43	0.08	0.02	27.77	0.04	0.01	31.77	*	*	*
Chat	0.13	0.03	24.45	0.12	0.03	26.32	-	-	-	*	*	*	-	-	-	-	-	-
Coffee	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Enset	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.22	0.05	25.13	0.19	0.05	25.50	-	-	-	*	*	*	-	-	-	*	*	*
ALL CROPS	1.56	0.29	18.43	1.38	0.24	17.71	0.03	0.01	33.73	0.10	0.03	33.97	0.04	0.01	31.26	*	*	*

TABLE 3.1

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

National

TYPE OF CROP	Total			DAP			UREA			DAP + UREA			NAT & COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	2,954.85	88.55	3.00	275.49	21.60	7.84	35.42	3.68	10.40	406.13	26.52	6.53	2,237.81	73.66	3.29
Teff	565.62	27.76	4.91	82.19	9.15	11.13	13.67	2.09	15.27	145.83	12.86	8.82	323.93	19.88	6.14
Barely	455.21	32.86	7.22	49.12	7.88	16.03	3.48	1.09	31.25	28.67	4.30	15.01	373.94	30.40	8.13
Wheat	344.27	20.75	6.03	55.64	7.93	14.26	4.35	1.05	24.13	99.77	9.58	9.60	184.50	13.37	7.25
Maize	1,060.69	43.26	4.08	63.66	8.48	13.32	9.13	1.76	19.28	103.97	11.68	11.24	883.93	37.61	4.25
Sorghum	376.86	24.99	6.63	4.39	1.68	38.40	2.98	0.81	27.16	7.97	1.97	24.70	361.52	24.29	6.72
Millet	130.48	13.84	10.61	18.18	4.43	24.38	1.80	0.90	50.00	19.03	4.33	22.76	91.47	11.15	12.19
Oats	21.72	3.81	17.52	2.30	1.08	46.88	*	*	*	*	*	*	18.52	3.44	18.58
PULSES	534.54	26.69	4.99	36.48	6.03	16.54	4.76	1.40	29.45	10.04	1.83	18.18	483.27	24.75	5.12
Horse Beans	206.82	14.26	6.90	17.23	3.87	22.47	2.29	0.95	41.30	4.01	1.07	26.58	183.29	12.58	6.86
Chick Peas	86.94	8.49	9.76	8.76	2.50	28.52	*	*	*	2.01	0.83	41.08	75.94	7.35	9.68
Haricot Beans	124.83	11.39	9.13	8.14	2.31	28.40	*	*	*	2.57	0.85	33.15	112.21	10.47	9.33
Field Peas	48.62	7.52	15.47	*	*	*	*	*	*	*	*	*	47.74	7.51	15.73
Lentils	41.38	5.23	12.65	2.03	1.00	49.39	*	*	*	0.79	0.33	41.77	38.35	5.10	13.30
Vetch	25.95	5.94	22.89	*	*	*	-	-	-	*	*	*	25.74	5.94	23.06
OILSEEDS	134.95	10.31	7.64	3.79	1.11	29.27	*	*	*	2.40	0.64	26.85	128.37	9.94	7.75
Neug	59.10	6.96	11.77	*	*	*	*	*	*	*	*	*	57.96	6.85	11.81
Lin Seed	49.39	5.47	11.09	*	*	*	*	*	*	*	*	*	47.87	5.41	11.31
Rape seed	17.41	4.65	26.74	1.74	0.66	38.02	*	*	*	1.18	0.44	36.99	14.46	4.54	31.37
Ground Nuts	2.55	1.24	48.79	*	*	*	*	*	*	*	*	*	2.46	1.23	49.91
Sun Flower	0.25	0.08	32.36	*	*	*	0.03	0.02	48.25	0.17	0.06	38.18	*	*	*
Sesame	6.24	2.36	37.77	*	*	*	*	*	*	*	*	*	5.59	1.85	33.16
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	310.23	20.46	6.59	11.78	2.05	17.42	7.07	1.74	24.61	11.52	2.42	21.02	279.85	19.13	6.83
Fenugreek	18.15	3.07	16.91	*	*	*	*	*	*	0.94	0.47	49.75	16.90	2.92	17.25
Spices	88.59	10.98	12.39	3.44	0.89	25.87	3.19	0.93	29.12	6.31	2.13	33.67	75.65	9.53	12.60
Potatoes	79.97	11.24	14.06	5.15	1.63	31.72	*	*	*	2.15	0.68	31.58	71.21	10.80	15.17
Other Vegetables	123.51	11.55	9.35	3.08	0.72	23.52	2.20	0.77	35.18	2.13	0.60	28.24	116.10	11.29	9.72
ALL TEMPORARY	3,934.57	113.89	2.89	327.53	25.72	7.85	47.64	4.95	10.39	430.09	27.39	6.37	3,129.30	96.32	3.08
Chat	63.94	9.06	14.17	0.39	0.13	32.69	0.83	0.24	29.36	1.61	0.63	39.10	61.10	8.99	14.71
Coffee	192.51	22.50	11.69	1.31	0.54	41.29	0.38	0.15	38.40	0.78	0.28	35.29	190.05	22.45	11.81
Enset	67.14	8.30	12.36	*	*	*	*	*	*	*	*	*	66.45	8.27	12.45
Cotton	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tobacco	8.12	2.86	35.28	*	*	*	-	-	-	-	-	-	8.05	2.86	35.48
Fruits	23.60	4.06	17.18	0.17	0.08	48.90	0.04	0.01	36.44	*	*	*	23.27	4.03	17.32
Other Permanent	35.27	4.77	13.53	0.10	0.04	38.23	*	*	*	*	*	*	34.93	4.77	13.65
TOTAL PERMANENT	395.09	30.06	7.61	2.50	0.91	36.33	1.59	0.39	24.65	3.10	0.83	26.69	387.89	29.95	7.72
ALL CROPS	4,329.66	120.56	2.78	330.03	25.73	7.79	49.23	5.05	10.25	433.20	27.42	6.33	3,517.19	103.49	2.94

TABLE 3.2

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Tigray

	Total			DAP			UREA			DAP + UREA			NAT & COM		
TYPE OF CROP	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	298.37	38.89	13.03	2.26	0.41	18.12	2.08	0.67	32.20	52.31	7.75	14.82	241.72	33.66	13.93
Teff	45.51	7.66	16.83	*	*	*	*	*	*	17.26	4.21	24.40	27.51	5.45	19.80
Barely	63.38	11.25	17.74	0.76	0.30	39.41	0.79	0.30	38.82	10.55	2.68	25.41	51.29	9.08	17.70
Wheat	36.10	5.09	14.11	0.68	0.20	29.86	0.66	0.30	45.07	8.49	1.39	16.35	26.26	4.16	15.84
Maize	69.28	11.85	17.11	*	*	*	-	-	-	6.78	2.66	39.24	62.33	10.46	16.78
Sorghum	42.95	10.66	24.82	*	*	*	-	-	-	1.21	0.60	49.23	41.53	10.31	24.83
Millet	41.05	8.90	21.68	*	*	*	*	*	*	8.02	2.21	27.59	32.71	8.01	24.50
Oats	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
PULSES	44.35	7.86	17.72	*	*	*	*	*	*	*	*	*	43.46	7.82	17.99
Horse Beans	18.21	4.61	25.29	*	*	*	*	*	*	*	*	*	17.87	4.53	25.37
Chick Peas	7.72	2.07	26.85	-	-	-	-	-	-	*	*	*	7.47	2.05	27.44
Haricot Beans	6.76	1.88	27.80	-	-	-	-	-	-	-	-	-	6.76	1.88	27.78
Field Peas	6.09	2.15	35.31	-	-	-	*	*	*	-	-	-	5.97	2.13	35.68
Lentils	3.87	1.25	32.33	*	*	*	-	-	-	-	-	-	3.83	1.24	32.32
Vetch	1.70	0.54	31.63	-	-	-	-	-	-	*	*	*	1.57	0.51	32.40
OILSEEDS	15.22	4.37	28.73	*	*	*	-	-	-	*	*	*	14.23	4.14	29.09
Neug	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Lin Seed	6.24	1.38	22.13	-	-	-	-	-	-	*	*	*	5.86	1.34	22.94
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	*	*	*	-	-	-	-	-	-	*	*	*	*	*	*
Sesame	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	3.47	0.96	27.64	-	-	-	-	-	-	*	*	*	3.38	0.96	28.34
Fenugreek	0.89	0.42	47.51	-	-	-	-	-	-	-	-	-	0.89	0.42	47.53
Spices	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Potatoes	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Other Vegetables	1.74	0.74	42.39	-	-	-	-	-	-	*	*	*	1.65	0.73	44.46
ALL TEMPORARY	361.40	47.99	13.28	2.89	0.76	26.13	2.21	0.67	30.40	53.52	7.81	14.60	302.79	42.72	14.11
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Other Permanent	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
TOTAL PERMANENT	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
ALL CROPS	364.95	49.76	13.64	2.89	0.76	26.13	2.21	0.67	30.40	53.52	7.81	14.59	306.33	44.52	14.53

TABLE 3.3

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Afar

TYPE OF CROP	Total			DAP			UREA			DAP + UREA			NAT & COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	3.79	1.09	28.72	*	*	*	-	-	-	-	-	-	3.78	1.08	28.59
Teff	0.80	0.36	45.17	*	*	*	-	-	-	-	-	-	0.79	0.36	45.45
Barely	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Wheat	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Maize	1.64	0.63	38.20	-	-	-	-	-	-	-	-	-	1.64	0.62	38.12
Sorghum	1.33	0.48	36.34	-	-	-	-	-	-	-	-	-	1.33	0.48	36.21
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	-	-	-	*	*	*	-	-	-	*	*	*
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Field Peas	*	*	*	-	-	-	*	*	*	-	-	-	*	*	*
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL TEMPORARY	4.53	1.56	34.54	0.01	0.01	45.83	*	*	*	-	-	-	4.49	1.56	34.63
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Other Permanent	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
TOTAL PERMANENT	0.23	0.12	49.48	-	-	-	-	-	-	-	-	-	0.23	0.12	49.40
ALL CROPS	4.76	1.63	34.21	0.01	0.01	45.83	*	*	*	-	-	-	4.72	1.62	34.27

TABLE 3.4

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Amhara

	Total			DAP			UREA			DAP + UREA			NAT & COM		
TYPE OF CROP	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	1,082.39	48.24	4.46	53.07	9.03	17.01	9.72	1.55	15.99	120.77	15.15	12.55	898.83	41.62	4.63
Teff	208.67	15.37	7.37	17.45	2.79	15.99	5.20	1.21	23.30	48.97	7.01	14.32	137.05	11.88	8.67
Barely	216.57	24.36	11.25	6.92	2.92	42.23	0.81	0.39	48.02	4.16	1.75	42.17	204.68	23.87	11.66
Wheat	129.82	13.37	10.30	2.69	0.77	28.76	1.34	0.55	41.30	32.45	5.95	18.34	93.34	10.18	10.90
Maize	299.95	21.87	7.29	9.91	2.98	30.13	0.72	0.32	43.91	23.85	5.17	21.68	265.48	20.11	7.58
Sorghum	152.22	17.21	11.31	*	*	*	*	*	*	*	*	*	150.19	16.97	11.30
Millet	64.39	9.84	15.29	16.07	4.39	27.30	*	*	*	9.32	3.67	39.34	37.69	6.76	17.93
Oats	10.78	2.95	27.42	-	-	-	-	-	-	*	*	*	10.42	2.87	27.53
PULSES	236.99	17.48	7.38	2.52	1.03	40.73	*	*	*	1.49	0.60	40.01	232.02	17.22	7.42
Horse Beans	90.45	9.39	10.38	*	*	*	*	*	*	*	*	*	87.54	8.87	10.13
Chick Peas	37.05	5.02	13.54	*	*	*	-	-	-	-	-	-	36.36	5.01	13.77
Haricot Beans	40.64	6.46	15.89	*	*	*	-	-	-	*	*	*	40.50	6.45	15.93
Field Peas	30.98	6.51	21.01	*	*	*	-	-	-	*	*	*	30.54	6.51	21.30
Lentils	22.88	4.19	18.29	*	*	*	*	*	*	*	*	*	22.11	4.16	18.84
Vetch	14.98	4.88	32.55	-	-	-	-	-	-	*	*	*	14.97	4.87	32.56
OILSEEDS	61.58	6.46	10.50	*	*	*	0.08	0.03	32.91	1.34	0.45	33.63	59.04	6.19	10.48
Neug	33.74	5.13	15.21	*	*	*	*	*	*	*	*	*	32.70	4.99	15.26
Lin Seed	22.07	3.34	15.15	*	*	*	-	-	-	*	*	*	22.04	3.34	15.16
Rape seed	3.80	1.31	34.44	*	*	*	*	*	*	0.83	0.39	47.18	2.58	1.23	47.93
Ground Nuts	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Sun Flower	0.20	0.07	35.53	*	*	*	*	*	*	0.13	0.06	44.27	*	*	*
Sesame	*	*	*	-	-	-	-	-	-	*	*	*	*	*	*
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	136.06	14.56	10.70	*	*	*	1.56	0.59	38.25	*	*	*	128.87	13.95	10.82
Fenugreek	10.48	2.59	24.74	-	-	-	-	-	-	*	*	*	9.99	2.55	25.54
Spices	52.76	8.99	17.05	*	*	*	1.22	0.55	44.99	*	*	*	48.52	7.98	16.44
Potatoes	43.83	9.62	21.95	*	*	*	-	-	-	*	*	*	42.22	9.53	22.57
Other Vegetables	28.99	5.70	19.67	*	*	*	*	*	*	0.19	0.09	46.96	28.14	5.69	20.21
ALL TEMPORARY	1,517.02	63.63	4.19	58.93	10.29	17.46	12.32	1.79	14.54	127.01	15.93	12.54	1,318.76	55.90	4.24
Chat	5.55	2.23	40.22	-	-	-	-	-	-	-	-	-	5.55	2.23	40.22
Coffee	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	2.26	1.13	49.92	-	-	-	*	*	*	*	*	*	*	*	*
Tobacco	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Fruits	0.61	0.30	49.11	-	-	-	-	-	-	-	-	-	0.61	0.30	49.13
Other Permanent	17.00	3.20	18.80	-	-	-	*	*	*	-	-	-	16.98	3.19	18.81
TOTAL PERMANENT	52.45	16.13	30.74	*	*	*	*	*	*	*	*	*	51.97	16.12	31.02
ALL CROPS	1,569.48	65.19	4.15	58.94	10.29	17.45	12.51	1.79	14.34	127.31	15.92	12.50	1,370.73	57.67	4.21

TABLE 3.5

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Oromia

	Total			DAP			UREA			DAP + UREA			NAT & COM			
TYPE OF CROP	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	
CEREALS	1,171.83	54.10	4.62	157.15	18.28	11.63	14.58	2.53	17.39	181.92	18.59	10.22	818.19	43.72	5.34	
Teff	224.34	18.05	8.05	45.77	8.27	18.07	5.51	1.47	26.72	70.15	9.69	13.82	102.90	9.87	9.59	
Barely	148.03	18.06	12.20	35.86	7.11	19.82	0.82	0.31	37.55	11.36	2.72	23.92	99.99	15.70	15.70	
Wheat	152.49	14.54	9.53	43.93	7.65	17.41	1.97	0.81	41.36	52.68	7.26	13.78	53.92	7.19	13.34	
Maize	496.21	29.89	6.02	24.94	5.77	23.15	4.22	1.27	30.24	42.40	7.78	18.36	424.65	27.05	6.37	
Sorghum	125.14	13.41	10.72	*	*	*	2.05	0.71	34.59	3.87	1.36	35.08	115.96	12.77	11.02	
Millet	15.05	2.69	17.85	1.10	0.42	37.93	*	*	*	*	*	*	13.02	2.64	20.25	
Oats	10.58	2.39	22.61	2.30	1.08	47.02	*	*	*	*	*	*	7.74	1.89	24.46	
PULSES	172.02	15.99	9.30	22.19	5.49	24.75	*	*	*	4.29	1.25	29.12	144.26	13.77	9.54	
Horse Beans	76.63	9.08	11.84	10.76	3.62	33.66	*	*	*	1.54	0.60	38.72	63.32	7.24	11.44	
Chick Peas	25.75	5.48	21.30	6.50	2.43	37.30	-	-	-	*	*	*	18.04	3.56	19.73	
Haricot Beans	39.66	5.92	14.92	3.32	1.30	39.16	*	*	*	*	*	*	35.05	5.55	15.83	
Field Peas	7.67	2.75	35.87	*	*	*	-	-	-	*	*	*	7.56	2.75	36.35	
Lentils	13.32	2.76	20.71	*	*	*	-	-	-	*	*	*	11.32	2.54	22.45	
Vetch	8.98	3.34	37.20	*	*	*	-	-	-	-	-	-	8.97	3.34	37.25	
OILSEEDS	53.00	6.65	12.54	1.72	0.66	38.32	*	*	*	0.51	0.22	43.91	50.71	6.53	12.88	
Neug	17.66	3.42	19.37	-	-	-	*	*	*	*	*	*	17.55	3.41	19.42	
Lin Seed	20.22	4.08	20.20	*	*	*	-	-	-	*	*	*	19.85	4.04	20.36	
Rape seed	12.97	4.45	34.26	1.37	0.62	45.41	*	*	*	*	*	*	11.25	4.34	38.61	
Ground Nuts	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sun Flower	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-	-
Sesame	*	*	*	-	-	-	*	*	*	-	-	-	*	*	*	*
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	78.53	8.44	10.75	5.42	1.40	25.84	3.07	1.41	46.03	2.91	0.83	28.61	67.13	7.24	10.78	
Fenugreek	5.64	1.32	23.40	0.01	-	45.08	-	-	-	*	*	*	5.34	1.27	23.83	
Spices	13.06	3.47	26.60	*	*	*	*	*	*	*	*	*	11.47	2.89	25.21	
Potatoes	21.41	4.72	22.06	2.45	1.08	44.18	*	*	*	1.35	0.57	42.20	16.40	3.87	23.58	
Other Vegetables	38.43	4.97	12.94	2.29	0.67	29.34	*	*	*	1.14	0.50	43.80	33.91	4.72	13.92	
ALL TEMPORARY	1,475.38	68.19	4.62	186.48	22.07	11.84	18.97	3.49	18.42	189.63	18.85	9.94	1,080.30	55.51	5.14	
Chat	31.83	5.04	15.83	0.17	0.07	39.36	0.50	0.21	42.44	1.29	0.62	48.35	29.87	4.96	16.62	
Coffee	117.83	14.99	12.72	*	*	*	*	*	*	*	*	*	117.15	14.94	12.76	
Enset	13.43	2.93	21.83	*	*	*	-	-	-	*	*	*	13.41	2.93	21.86	
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*	*
Fruits	14.55	2.85	19.61	*	*	*	*	*	*	*	*	*	14.41	2.82	19.59	
Other Permanent	10.49	2.53	24.15	*	*	*	-	-	-	*	*	*	10.47	2.53	24.19	
TOTAL PERMANENT	193.32	18.30	9.47	0.52	0.24	46.78	0.53	0.21	39.43	1.76	0.66	37.32	190.50	18.23	9.57	
ALL CROPS	1,668.70	73.38	4.40	187.00	22.07	11.80	19.50	3.62	18.58	191.40	18.89	9.87	1,270.80	60.59	4.77	

TABLE 3.6

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Somale

TYPE OF CROP	Total			DAP			UREA			DAP + UREA			NAT & COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	10.69	2.84	26.54	-	-	-	-	-	-	*	*	*	10.69	2.84	26.56
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barely	2.42	0.89	36.88	-	-	-	-	-	-	-	-	-	2.42	0.89	36.88
Wheat	2.18	0.83	38.30	-	-	-	-	-	-	-	-	-	2.18	0.83	38.30
Maize	4.33	1.19	27.60	-	-	-	-	-	-	-	-	-	4.33	1.19	27.60
Sorghum	1.58	0.79	49.92	-	-	-	-	-	-	*	*	*	*	*	*
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
PULSES	0.21	0.09	43.01	-	-	-	-	-	-	-	-	-	0.21	0.09	43.01
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	0.18	0.09	48.18	-	-	-	-	-	-	-	-	-	0.18	0.09	48.18
Field Peas	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Fenugreek	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
ALL TEMPORARY	11.37	2.83	24.93	-	-	-	-	-	-	*	*	*	11.36	2.83	24.95
Chat	1.92	0.61	31.79	-	-	-	-	-	-	-	-	-	1.92	0.61	31.79
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	2.03	0.63	30.93	-	-	-	-	-	-	-	-	-	2.03	0.63	30.93
ALL CROPS	13.40	2.95	22.01	-	-	-	-	-	-	*	*	*	13.39	2.95	22.02



TABLE 3.7

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Benshangul-Gumuz

TYPE OF CROP	Total			DAP			UREA			DAP + UREA			NAT & COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	27.20	3.98	14.62	*	*	*	*	*	*	0.66	0.14	21.79	25.74	3.90	15.14
Teff	2.00	0.63	31.53	*	*	*	*	*	*	*	*	*	1.50	0.49	32.43
Barely	*	*	*	*	*	*	-	-	-	*	*	*	*	*	*
Wheat	*	*	*	*	*	*	-	-	-	*	*	*	*	*	*
Maize	15.46	2.17	14.04	*	*	*	*	*	*	0.52	0.13	24.72	14.82	2.09	14.11
Sorghum	5.45	0.90	16.42	*	*	*	-	-	-	*	*	*	5.40	0.89	16.42
Millet	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*
Oats	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
PULSES	2.98	0.94	31.66	*	*	*	-	-	-	-	-	-	2.92	0.93	31.90
Horse Beans	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Chick Peas	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*
Haricot Beans	1.68	0.73	43.42	-	-	-	-	-	-	-	-	-	1.68	0.73	43.45
Field Peas	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Lentils	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	2.28	0.42	18.24	-	-	-	-	-	-	-	-	-	2.28	0.42	18.24
Neug	0.80	0.23	28.18	-	-	-	-	-	-	-	-	-	0.80	0.23	28.18
Lin Seed	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Rape seed	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Ground Nuts	0.26	0.09	33.29	-	-	-	-	-	-	-	-	-	0.26	0.09	33.29
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	1.15	0.31	27.27	-	-	-	-	-	-	-	-	-	1.15	0.31	27.27
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	3.17	1.05	33.01	*	*	*	*	*	*	*	*	*	2.78	0.83	30.02
Fenugreek	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Spices	1.18	0.47	40.34	-	-	-	*	*	*	*	*	*	1.08	0.43	39.98
Potatoes	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*
Other Vegetables	1.58	0.57	36.31	*	*	*	-	-	-	*	*	*	1.46	0.51	34.54
ALL TEMPORARY	35.64	5.15	14.46	*	*	*	*	*	*	0.74	0.15	19.99	33.73	4.91	14.56
Chat	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Coffee	0.35	0.15	42.00	-	-	-	-	-	-	-	-	-	0.35	0.15	42.00
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Tobacco	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Fruits	0.14	0.07	47.86	-	-	-	-	-	-	-	-	-	0.14	0.07	47.86
Other Permanent	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
TOTAL PERMANENT	1.20	0.47	39.54	-	-	-	-	-	-	-	-	-	1.20	0.47	39.54
ALL CROPS	36.83	5.19	14.10	*	*	*	*	*	*	0.74	0.15	19.99	34.92	4.95	14.17

TABLE 3.8

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

(S.N.N.P.R)

TYPE OF CROP	Total			DAP			UREA			DAP + UREA			NAT & COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	354.85	32.38	9.13	62.18	7.13	11.47	8.60	2.06	24.01	49.10	8.23	16.77	234.97	24.97	10.63
Teff	83.85	12.21	14.57	18.21	2.73	14.99	2.53	0.81	32.09	8.94	2.11	23.64	54.17	11.25	20.77
Barely	24.63	5.76	23.37	5.53	1.70	30.71	*	*	*	2.57	0.94	36.75	15.50	4.99	32.19
Wheat	22.73	3.68	16.18	8.21	1.95	23.78	*	*	*	5.75	1.29	22.43	8.41	2.34	27.82
Maize	172.10	18.78	10.91	28.52	5.45	19.09	4.05	1.17	28.90	30.22	6.48	21.45	109.30	12.73	11.65
Sorghum	45.29	5.75	12.68	0.86	0.36	41.84	*	*	*	*	*	*	43.20	5.55	12.84
Millet	6.24	2.08	33.32	*	*	*	*	*	*	*	*	*	4.38	1.93	43.99
Oats	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
PULSES	77.05	9.37	12.16	11.56	2.28	19.72	2.37	1.03	43.37	3.53	1.13	32.01	59.59	8.01	13.44
Horse Beans	20.59	3.40	16.50	4.87	1.02	20.90	*	*	*	1.58	0.77	49.04	13.64	2.53	18.51
Chick Peas	16.14	3.53	21.88	1.51	0.47	30.73	*	*	*	*	*	*	13.86	3.47	25.01
Haricot Beans	35.21	6.98	19.84	4.81	1.91	39.72	*	*	*	1.40	0.56	40.14	27.36	5.73	20.95
Field Peas	3.71	1.42	38.23	*	*	*	-	-	-	-	-	-	3.55	1.41	39.77
Lentils	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*
Vetch	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
OILSEEDS	2.60	1.00	38.52	*	*	*	*	*	*	*	*	*	1.84	0.79	43.11
Neug	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Lin Seed	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Rape seed	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*
Ground Nuts	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	88.14	11.54	13.09	3.84	0.88	22.84	2.36	0.82	34.72	4.92	1.48	30.04	77.02	10.83	14.06
Fenugreek	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spices	20.74	5.20	25.06	2.45	0.78	31.71	1.14	0.53	46.78	3.42	1.28	37.34	13.72	4.28	31.22
Potatoes	14.34	3.38	23.58	0.94	0.38	40.80	*	*	*	0.76	0.37	48.81	12.38	3.29	26.58
Other Vegetables	52.19	8.67	16.62	*	*	*	*	*	*	*	*	*	50.51	8.48	16.79
ALL TEMPORARY	522.63	43.95	8.41	77.95	8.22	10.54	13.58	2.94	21.64	57.68	8.96	15.54	373.42	34.80	9.32
Chat	23.20	7.16	30.88	*	*	*	*	*	*	*	*	*	22.67	7.13	31.44
Coffee	48.39	6.02	12.44	1.01	0.49	48.36	0.35	0.15	41.10	0.42	0.19	45.45	46.61	5.94	12.75
Enset	53.68	7.76	14.46	*	*	*	*	*	*	*	*	*	53.01	7.73	14.59
Cotton	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Tobacco	1.73	0.72	41.77	*	*	*	-	-	-	-	-	-	1.66	0.69	41.52
Fruits	7.79	2.86	36.68	*	*	*	*	*	*	0.03	0.01	49.16	7.61	2.85	37.48
Other Permanent	3.85	1.17	30.27	0.09	0.04	42.10	*	*	*	*	*	*	3.55	1.16	32.59
TOTAL PERMANENT	140.77	17.40	12.36	1.96	0.88	44.66	0.71	0.30	41.95	0.85	0.42	48.85	137.24	17.29	12.60
ALL CROPS	663.40	48.84	7.36	79.91	8.23	10.30	14.30	2.95	20.60	58.53	8.97	15.33	510.66	41.17	8.06

TABLE 3.9

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Gambela

TYPE OF CROP	Total			DAP			UREA			DAP + UREA			NAT & COM		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	1.32	0.38	28.57	0.02	-	-	-	-	-	-	-	-	1.29	0.37	28.63
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barely	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize	0.97	0.34	35.25	0.02	-	-	-	-	-	-	-	-	0.94	0.33	35.34
Sorghum	0.35	0.12	33.75	-	-	-	-	-	-	-	-	-	0.35	0.12	33.75
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.15	0.06	39.87	-	-	-	-	-	-	-	-	-	0.15	0.06	39.87
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0.08	0.04	43.72	-	-	-	-	-	-	-	-	-	0.08	0.04	43.72
Fenugreek	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Spices	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
ALL TEMPORARY	1.55	0.40	25.67	0.02	-	-	-	-	-	-	-	-	1.52	0.39	25.55
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Enset	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
TOTAL PERMANENT	0.07	0.03	40.35	-	-	-	-	-	-	-	-	-	0.07	0.03	40.35
ALL CROPS	1.62	0.39	24.17	0.02	-	-	-	-	-	-	-	-	1.60	0.38	24.04

TABLE 3.10

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Harari

TYPE OF CROP	Total			DAP			UREA			DAP + UREA			NAT & COM		
	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)
CEREALS	1.80	0.31	17.21	0.04	0.02	47.50	0.35	0.09	24.81	0.61	0.20	32.10	0.79	0.11	14.44
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barely	*	*	*	*	*	*	*	*	*	0.01	-	40.91	-	-	-
Wheat	0.16	0.05	32.34	-	-	-	*	*	*	0.09	0.04	44.91	0.05	0.02	37.52
Maize	0.65	0.10	16.20	*	*	*	0.10	0.02	19.21	0.18	0.05	27.64	0.34	0.09	26.42
Sorghum	0.92	0.19	20.97	0.01	-	26.33	0.20	0.05	24.71	0.33	0.13	39.09	0.38	0.06	16.69
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*
PULSES	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	0.09	0.03	28.50	-	-	-	0.01	-	36.81	-	-	-	0.08	0.03	33.17
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	0.09	0.03	28.51	-	-	-	0.01	-	36.81	-	-	-	0.08	0.03	33.17
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0.10	0.03	34.11	*	*	*	*	*	*	*	*	*	0.05	0.02	44.06
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	*	*	*	-	-	-	-	-	-	*	*	*	-	-	-
Other Vegetables	0.08	0.03	38.83	-	-	-	*	*	*	0.01	-	39.64	0.05	0.02	44.72
ALL TEMPORARY	2.01	0.33	16.42	0.05	0.02	47.58	0.39	0.09	23.27	0.64	0.20	31.21	0.92	0.12	12.98
Chat	0.78	0.15	18.63	0.01	-	35.08	0.15	0.03	22.34	0.18	0.05	25.90	0.44	0.10	23.18
Coffee	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Fruits	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Other Permanent	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
TOTAL PERMANENT	0.87	0.16	18.05	0.01	-	33.34	0.15	0.03	22.02	0.19	0.05	24.64	0.51	0.12	23.95
ALL CROPS	2.87	0.45	15.49	0.06	0.03	44.06	0.55	0.11	20.19	0.83	0.25	29.50	1.43	0.19	13.61

TABLE 3.11

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Addis Ababa

TYPE OF CROP	Total			DAP			UREA			DAP + UREA			NAT & COM		
	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)
CEREALS	0.91	0.15	16.53	0.02	0.01	28.07	0.01	-	47.44	0.75	0.15	19.70	0.13	0.03	23.48
Teff	0.45	0.10	22.89	-	-	-	-	-	-	0.44	0.10	23.56	-	-	-
Barely	0.02	0.01	38.90	-	-	-	-	-	-	-	-	-	0.02	0.01	40.79
Wheat	0.37	0.06	16.70	0.01	-	29.51	*	*	*	0.31	0.05	16.16	*	*	*
Maize	0.06	0.02	33.82	-	-	-	-	-	-	-	-	-	0.06	0.02	32.03
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	0.20	0.07	35.91	*	*	*	-	-	-	0.01	-	32.85	0.10	0.04	40.74
Horse Beans	0.05	0.02	37.82	-	-	-	-	-	-	-	-	-	0.05	0.02	35.89
Chick Peas	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Haricot Beans	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Field Peas	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*
Lentils	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Vetch	*	*	*	*	*	*	-	-	-	-	-	-	0.01	-	48.79
OILSEEDS	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Neug	-	-	-	-	-	-	-	-	-	-	-	-	*	*	*
Lin Seed	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun-Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0.15	0.06	37.37	*	*	*	-	-	-	0.09	0.03	38.46	0.02	0.01	27.64
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	0.15	0.06	38.18	*	*	*	-	-	-	0.09	0.03	38.79	0.02	0.01	29.83
ALL TEMPORARY	1.28	0.23	18.15	0.15	0.07	43.91	0.01	-	36.12	0.85	0.15	17.85	0.27	0.05	19.73
Chat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL CROPS	1.28	0.23	18.14	0.15	0.07	43.91	0.01	-	36.10	0.85	0.15	17.85	0.27	0.05	19.73

TABLE 3.12

ESTIMATES OF QUANTITY OF FERTILIZER APPLIED BY TYPE OF FERTILIZER, THEIR STANDARD  
ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Dire Dawa

TYPE OF CROP	Total			DAP			UREA			DAP + UREA			NAT & COM		
	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)
CEREALS	1.70	0.33	19.63	-	-	-	0.01	-	44.82	*	*	*	1.68	0.33	19.57
Teff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barely	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Wheat	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Maize	0.05	0.02	41.32	-	-	-	-	-	-	-	-	-	0.05	0.02	41.33
Sorghum	1.63	0.33	20.00	-	-	-	-	-	-	*	*	*	1.61	0.32	19.96
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Horse Beans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haricot Beans	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Vegetables	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
ALL TEMPORARY	1.77	0.35	19.60	-	-	-	0.01	-	45.19	*	*	*	1.74	0.34	19.56
Chat	0.57	0.15	25.36	-	-	-	-	-	-	-	-	-	0.57	0.14	25.21
Coffee	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
Enset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMANENT	0.59	0.14	24.21	-	-	-	-	-	-	-	-	-	0.59	0.14	24.07
ALL CROPS	2.36	0.42	17.99	-	-	-	0.01	-	43.37	0.01	0.01	49.49	2.34	0.42	17.85

TABLE 4.1

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

## National

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	162.99	10.18	6.25	4,630.07	149.41	3.23
Teff	10.58	1.53	14.46	1,023.86	39.78	3.89
Barely	*	*	*	1,176.45	81.30	6.91
Wheat	90.75	8.55	9.42	1,417.70	114.50	8.08
Maize	59.19	4.79	8.10	562.45	21.91	3.90
Sorghum	1.48	0.26	17.64	248.85	12.17	4.89
Millet	0.19	0.07	37.58	135.83	10.89	8.02
Oats	-	-	-	64.93	9.05	13.94
PULSES	3.04	0.76	24.88	985.83	46.65	4.73
Horse Beans	1.17	0.43	36.97	432.45	29.81	6.89
Field Peas	0.72	0.32	43.84	158.31	16.28	10.28
Haricot Beans	0.16	0.05	31.96	106.31	12.36	11.63
Chick Peas	*	*	*	147.06	16.68	11.35
Lentils	-	-	-	42.58	5.67	13.31
Vetch	*	*	*	99.12	13.83	13.95
Others	0.71	0.28	39.62	107.46	8.63	8.03
Neug	-	-	-	-	-	-
Lin Seed	0.61	0.28	46.33	38.92	7.03	18.06
Rape seed	*	*	*	6.56	1.85	28.14
Ground Nuts	-	-	-	-	-	-
Sun Flower	-	-	-	0.60	0.12	19.21
Sesame	-	-	-	4.18	1.13	27.00
Fenugreek	-	-	-	7.91	1.43	18.10
ALL CROPS	166.75	10.34	6.20	5,723.36	170.23	2.97

TABLE 4.2

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

## Tigray

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	9.92	1.85	18.61	339.68	18.10	5.33
Teff	1.11	0.49	44.30	56.62	4.96	8.75
Barely	-	-	-	114.59	9.98	8.71
Wheat	8.56	1.81	21.11	86.55	8.54	9.87
Maize	0.02	0.01	49.75	30.61	4.65	15.20
Sorghum	*	*	*	25.97	3.36	12.93
Millet	0.07	0.03	48.42	24.93	2.95	11.83
Oats	-	-	-	*	*	*
PULSES	*	*	*	43.02	4.08	9.47
Horse Beans	*	*	*	17.19	2.80	16.30
Field Peas	-	-	-	7.01	1.94	27.72
Haricot Beans	*	*	*	0.73	0.23	32.15
Chick Peas	-	-	-	9.72	1.66	17.12
Lentils	-	-	-	2.32	0.66	28.19
Vetch	-	-	-	6.04	1.30	21.48
Others	*	*	*	6.72	1.01	14.96
Neug	-	-	-	-	-	-
Lin Seed	*	*	*	3.02	0.57	18.88
Rape seed	-	-	-	-	-	-
Ground Nuts	-	-	-	*	*	*
Sun Flower	-	-	-	-	-	-
Sesame	-	-	-	1.90	0.70	36.90
Fenugreek	-	-	-	0.14	0.06	42.38
ALL CROPS	9.99	1.85	18.52	389.43	19.21	4.93

TABLE 4.3

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

Afar

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	*	*	*	5.72	0.92	16.11
Teff	-	-	-	2.50	0.70	27.85
Barely	-	-	-	*	*	*
Wheat	-	-	-	*	*	*
Maize	*	*	*	2.31	0.42	18.03
Sorghum	-	-	-	0.51	0.12	22.72
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	0.45	0.17	36.97
Horse Beans	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Haricot Beans	-	-	-	0.24	0.11	45.72
Chick Peas	-	-	-	0.21	0.08	40.18
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Others	-	-	-	0.01	-	31.94
Neug	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-
Sun Flower	-	-	-	0.01	-	47.26
Sesame	-	-	-	0.01	-	42.54
Fenugreek	-	-	-	-	-	-
ALL CROPS	*	*	*	6.19	1.02	16.46

TABLE 4.4

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

Amhara

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
CEREALS	37.76	4.67	12.35	1,342.82	54.04	4.02
Teff	3.79	0.89	23.57	386.87	23.61	6.10
Barely	-	-	-	351.93	28.19	8.01
Wheat	20.65	3.87	18.73	318.32	35.87	11.27
Maize	13.30	2.10	15.76	104.87	6.58	6.27
Sorghum	*	*	*	81.35	7.76	9.54
Millet	-	-	-	82.13	9.68	11.78
Oats	-	-	-	17.35	4.52	26.03
PULSES	*	*	*	442.31	27.57	6.23
Horse Beans	-	-	-	189.90	18.01	9.49
Field Peas	-	-	-	61.67	6.42	10.41
Haricot Beans	-	-	-	32.06	7.82	24.38
Chick Peas	-	-	-	79.47	10.04	12.63
Lentils	-	-	-	25.28	4.76	18.83
Vetch	-	-	-	53.93	8.53	15.82
Others	-	-	-	39.25	3.40	8.67
Neug	-	-	-	-	-	-
Lin Seed	-	-	-	7.96	1.16	14.60
Rape seed	-	-	-	2.39	0.69	28.88
Ground Nuts	-	-	-	-	-	-
Sun Flower	-	-	-	0.48	0.11	23.24
Sesame	-	-	-	*	*	*
Fenugreek	-	-	-	4.15	1.23	29.76
ALL CROPS	37.77	4.67	12.35	1,824.39	67.54	3.70



TABLE 4.5

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

Oromia

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	73.26	7.63	10.41	2,526.58	136.40	5.40
Teff	2.91	0.94	32.42	488.85	30.45	6.23
Barely	*	*	*	631.92	74.54	11.80
Wheat	44.40	6.61	14.89	910.86	107.90	11.85
Maize	24.53	3.15	12.84	328.27	18.97	5.78
Sorghum	0.58	0.15	25.47	99.29	8.22	8.28
Millet	*	*	*	20.62	3.66	17.75
Oats	-	-	-	46.77	7.84	16.76
PULSES	2.51	0.73	29.10	421.05	36.28	8.62
Horse Beans	*	*	*	193.25	23.21	12.01
Field Peas	0.71	0.32	44.65	69.53	13.97	20.09
Haricot Beans	0.09	0.04	48.93	52.63	9.11	17.32
Chick Peas	*	*	*	53.43	13.14	24.59
Lentils	-	-	-	14.53	3.00	20.65
Vetch	*	*	*	37.70	10.80	28.65
Others	0.66	0.28	42.76	56.22	7.83	13.93
Neug	-	-	-	-	-	-
Lin Seed	0.60	0.28	46.77	27.56	6.90	25.05
Rape seed	*	*	*	4.14	1.71	41.38
Ground Nuts	-	-	-	-	-	-
Sun Flower	-	-	-	0.06	0.02	38.32
Sesame	-	-	-	0.17	0.07	43.03
Fenugreek	-	-	-	3.43	0.72	21.01
ALL CROPS	76.43	7.80	10.21	3,003.86	152.56	5.08

TABLE 4.6

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

Somale

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	0.13	0.05	41.29	18.16	1.99	10.95
Teff	-	-	-	*	*	*
Barely	-	-	-	2.86	0.91	31.67
Wheat	-	-	-	1.85	0.70	37.93
Maize	0.10	0.04	45.67	8.22	1.13	13.75
Sorghum	0.03	0.01	43.02	5.10	1.08	21.22
Millet	-	-	-	-	-	-
Oats	-	-	-	*	*	*
PULSES	*	*	*	0.30	0.10	31.97
Horse Beans	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Haricot Beans	*	*	*	0.18	0.06	36.04
Chick Peas	-	-	-	0.07	0.03	45.91
Lentils	-	-	-	-	-	-
Vetch	-	-	-	*	*	*
Others	-	-	-	*	*	*
Neug	-	-	-	-	-	-
Lin Seed	-	-	-	0.01	0.01	42.31
Rape seed	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Fenugreek	-	-	-	*	*	*
ALL CROPS	0.14	0.05	38.55	18.71	2.06	11.00

TABLE 4.7

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

Benshangul-Gumuz

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	0.51	0.14	27.22	39.27	6.23	15.87
Teff	0.02	0.01	33.26	9.56	2.79	29.22
Barely	-	-	-	*	*	*
Wheat	-	-	-	*	*	*
Maize	0.48	0.14	28.42	6.80	1.05	15.47
Sorghum	0.01	0.01	45.75	11.62	1.71	14.69
Millet	-	-	-	6.82	1.67	24.47
Oats	-	-	-	*	*	*
PULSES	-	-	-	3.70	1.12	30.40
Horse Beans	-	-	-	1.00	0.38	38.54
Field Peas	-	-	-	*	*	*
Haricot Beans	-	-	-	1.77	0.79	44.69
Chick Peas	-	-	-	0.09	0.04	40.14
Lentils	-	-	-	*	*	*
Vetch	-	-	-	-	-	-
Others	-	-	-	3.44	0.62	18.01
Neug	-	-	-	-	-	-
Lin Seed	-	-	-	0.04	0.01	32.42
Rape seed	-	-	-	*	*	*
Ground Nuts	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-
Sesame	-	-	-	0.57	0.18	31.97
Fenugreek	-	-	-	0.01	-	28.98
ALL CROPS	0.51	0.14	27.22	46.41	7.26	15.63

TABLE 4.8

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

(S.N.N.P.R)

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ('000HA)	S.E ('000)	C.V. (%)	Estimate ('000HA)	S.E ('000)	C.V. (%)
CEREALS	40.23	4.49	11.17	342.13	20.63	6.03
Teff	2.70	0.64	23.75	76.55	8.04	10.50
Barely	*	*	*	72.60	12.47	17.17
Wheat	16.68	3.33	19.99	93.69	10.24	10.93
Maize	20.28	2.93	14.43	77.91	7.24	9.29
Sorghum	0.50	0.18	35.85	19.94	2.15	10.79
Millet	-	-	-	1.32	0.41	30.99
Oats	-	-	-	0.12	0.06	47.56
PULSES	0.49	0.20	40.11	72.75	9.04	12.43
Horse Beans	0.44	0.20	44.82	31.01	4.21	13.59
Field Peas	0.01	0.01	41.02	19.30	4.94	25.61
Haricot Beans	0.04	0.02	48.62	18.62	2.81	15.10
Chick Peas	-	-	-	3.13	1.50	47.83
Lentils	-	-	-	0.31	0.12	40.67
Vetch	-	-	-	*	*	*
Others	-	-	-	0.57	0.18	32.19
Neug	-	-	-	-	-	-
Lin Seed	-	-	-	*	*	*
Rape seed	-	-	-	0.02	0.01	31.50
Ground Nuts	-	-	-	-	-	-
Sun Flower	-	-	-	0.04	0.01	29.40
Sesame	-	-	-	*	*	*
Fenugreek	-	-	-	*	*	*
ALL CROPS	40.72	4.55	11.18	415.46	26.69	6.42

TABLE 4.9

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

Gambela

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)
CEREALS	*	*	*	3.56	0.86	24.12
Teff	-	-	-	-	-	-
Barely	-	-	-	*	*	*
Wheat	-	-	-	-	-	-
Maize	*	*	*	2.15	0.55	25.59
Sorghum	0.04	0.02	45.66	1.38	0.52	37.67
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	*	*	*
Horse Beans	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Haricot Beans	-	-	-	0.01	0.01	49.62
Chick Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Others	-	-	-	0.06	0.03	46.08
Neug	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-
Sesame	-	-	-	*	*	*
Fenugreek	-	-	-	-	-	-
ALL CROPS	*	*	*	3.63	0.86	23.69

TABLE 4.10

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

Harari

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)
CEREALS	0.39	0.09	24.05	3.48	0.29	8.26
Teff	-	-	-	-	-	-
Barely	-	-	-	0.05	0.02	39.00
Wheat	0.23	0.08	33.80	0.16	0.06	38.56
Maize	0.11	0.03	22.54	1.18	0.12	10.05
Sorghum	0.05	0.01	29.96	2.08	0.17	8.15
Millet	-	-	-	-	-	-
Oats	-	-	-	*	*	*
PULSES	-	-	-	0.02	0.01	27.59
Horse Beans	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Haricot Beans	-	-	-	0.02	-	26.11
Chick Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Others	-	-	-	0.87	0.24	27.72
Neug	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
ALL CROPS	0.39	0.09	23.94	4.37	0.31	7.13

TABLE 4.11

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

Addis Ababa

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)
CEREALS	0.28	0.09	31.28	6.92	1.07	15.39
Teff	0.06	0.03	44.75	2.87	0.44	15.45
Barely	-	-	-	*	*	*
Wheat	0.23	0.07	29.62	3.82	0.71	18.51
Maize	-	-	-	0.02	0.01	35.68
Sorghum	-	-	-	-	-	-
Millet	-	-	-	-	-	-
Oats	-	-	-	*	*	*
PULSES	-	-	-	2.16	0.48	22.27
Horse Beans	-	-	-	*	*	*
Field Peas	-	-	-	0.01	0.01	46.98
Haricot Beans	-	-	-	-	-	-
Chick Peas	-	-	-	0.94	0.22	23.55
Lentils	-	-	-	0.09	0.02	22.32
Vetch	-	-	-	1.00	0.27	26.75
Others	-	-	-	0.06	0.02	31.86
Neug	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Fenugreek	-	-	-	0.06	0.02	34.02
ALL CROPS	0.28	0.09	31.28	9.14	1.54	16.79

TABLE 4.12

ESTIMATES OF QUANTITY OF IMPROVED SEED AND LOCAL SEED  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION  
FOR PRIVATE HOLDINGS 1999/2000(1992 E.C.)

Dire Dawa

TYPE OF CROP	IMPROVED SEED			LOCAL SEED		
	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)
CEREALS	0.10	0.02	16.42	1.74	0.26	14.96
Teff	-	-	-	-	-	-
Barely	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	0.01	-	47.82	0.12	0.02	19.72
Sorghum	0.09	0.02	16.70	1.62	0.25	15.52
Millet	-	-	-	-	-	-
Oats	-	-	-	-	-	-
PULSES	-	-	-	0.05	0.01	30.77
Horse Beans	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-
Haricot Beans	-	-	-	0.05	0.01	30.88
Chick Peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Others	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Lin Seed	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-
Ground Nuts	-	-	-	-	-	-
Sun Flower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
ALL CROPS	0.11	0.02	16.58	1.79	0.27	14.87

TABLE 5.5

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

## Oromia

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	Estimate ( <sup>'</sup> 000HA)	S.E ( <sup>'</sup> 000)	C.V. (%)	Estimate ( <sup>'</sup> 000HA)	S.E ( <sup>'</sup> 000)	C.V. (%)	Estimate ( <sup>'</sup> 000HA)	S.E ( <sup>'</sup> 000)	C.V. (%)	Estimate ( <sup>'</sup> 000HA)	S.E ( <sup>'</sup> 000)	C.V. (%)	Estimate ( <sup>'</sup> 000HA)	S.E ( <sup>'</sup> 000)	C.V. (%)
ILLITERATE	3,136.65	81.10	2.59	30.35	6.90	22.75	28.16	8.80	31.26	75.74	10.99	14.51	624.79	45.78	7.33
GRADES 1 - 3	541.51	24.85	4.59	12.96	3.25	25.07	7.27	2.32	31.95	12.63	2.59	20.54	130.52	11.05	8.47
GRADES 4 - 6	417.28	24.02	5.76	7.79	2.86	36.72	3.31	1.63	49.28	13.62	2.86	20.97	102.51	10.74	10.48
GRADES 7 - 8	156.70	12.94	8.26	5.01	1.79	35.76	*	*	*	4.16	1.40	33.61	40.06	6.15	15.34
GRADES 9 - 11	65.91	7.62	11.57	*	*	*	*	*	*	2.88	1.16	40.37	14.85	3.27	22.04
GRADES 12 COMPLETE	25.40	4.32	17.02	*	*	*	*	*	*	*	*	*	6.63	1.94	29.18
HIGHER EDUCATION	7.28	1.87	25.71	-	-	-	-	-	-	*	*	*	2.17	1.02	46.90
TOTAL	4,351.06	101.50	2.33	57.49	10.90	18.95	40.96	10.73	26.20	110.81	13.55	12.23	921.52	62.74	6.81

TABLE 5.6

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

## Somale

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	Estimate ( <sup>'</sup> 000HA)	S.E ( <sup>'</sup> 000)	C.V. (%)	Estimate ( <sup>'</sup> 000HA)	S.E ( <sup>'</sup> 000)	C.V. (%)	Estimate ( <sup>'</sup> 000HA)	S.E ( <sup>'</sup> 000)	C.V. (%)	Estimate ( <sup>'</sup> 000HA)	S.E ( <sup>'</sup> 000)	C.V. (%)	Estimate ( <sup>'</sup> 000HA)	S.E ( <sup>'</sup> 000)	C.V. (%)
ILLITERATE	74.59	10.27	13.77	0.28	0.12	44.61	1.32	0.40	30.63	*	*	*	*	*	*
GRADES 1 - 3	10.41	2.41	23.17	*	*	*	0.09	0.04	41.87	*	*	*	*	*	*
GRADES 4 - 6	2.32	0.66	28.30	*	*	*	*	*	*	-	-	-	*	*	*
GRADES 7 - 8	*	*	*	-	-	-	*	*	*	-	-	-	*	*	*
GRADES 9 - 11	*	*	*	-	-	-	*	*	*	-	-	-	-	-	-
GRADES 12 COMPLETE	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
TOTAL	87.85	11.75	13.38	0.74	0.30	40.57	1.80	0.52	29.15	*	*	*	*	*	*

TABLE 5.7

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Benshangul-Gumuz

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
ILLITERATE	90.44	10.56	11.67	0.36	0.17	46.30	*	*	*	*	*	*	10.11	2.65	26.25
GRADES 1 - 3	15.51	1.68	10.83	-	-	-	*	*	*	*	*	*	2.06	0.59	28.66
GRADES 4 - 6	12.97	1.85	14.23	*	*	*	*	*	*	*	*	*	1.43	0.57	39.67
GRADES 7 - 8	2.59	0.53	20.49	*	*	*	*	*	*	*	*	*	0.47	0.21	44.40
GRADES 9 - 11	1.51	0.45	30.15	*	*	*	-	-	-	-	-	-	*	*	*
GRADES 12 COMPLETE	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
HIGHER EDUCATION	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	123.74	12.61	10.19	0.56	0.19	34.54	1.03	0.50	48.46	1.23	0.58	46.94	14.24	3.41	23.92

TABLE 5.8

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

(S.N.N.P.R)

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)	Estimate ( <sup>000</sup> HA)	S.E ( <sup>000</sup> )	C.V. (%)
ILLITERATE	1,814.75	87.48	4.82	24.03	6.07	25.28	4.34	1.38	31.86	18.61	5.31	28.53	333.04	40.96	12.30
GRADES 1 - 3	291.16	21.77	7.48	6.24	2.01	32.13	0.44	0.21	47.61	*	*	*	62.60	9.41	15.03
GRADES 4 - 6	313.84	26.20	8.35	8.63	2.99	34.61	0.60	0.23	38.83	4.56	1.63	35.81	70.95	10.61	14.95
GRADES 7 - 8	115.76	11.75	10.15	*	*	*	*	*	*	*	*	*	23.91	4.48	18.73
GRADES 9 - 11	55.90	9.30	16.64	*	*	*	-	-	-	*	*	*	13.39	3.60	26.92
GRADES 12 COMPLETE	17.31	3.30	19.04	*	*	*	-	-	-	*	*	*	2.93	1.17	40.05
HIGHER EDUCATION	8.52	3.78	44.40	-	-	-	*	*	*	-	-	-	*	*	*
TOTAL	2,617.25	121.07	4.63	45.63	10.11	22.16	6.37	1.78	27.94	27.86	6.99	25.09	507.70	57.36	11.30

TABLE 5.1

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

## National

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	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. (%)
ILLITERATE	8,118.16	131.58	1.62	94.72	10.84	11.44	55.32	10.27	18.57	123.58	12.90	10.44	1,555.36	69.52	4.47
GRADES 1 - 3	1,476.57	40.74	2.76	27.72	4.27	15.42	12.35	2.73	22.07	22.69	3.46	15.26	346.61	19.12	5.52
GRADES 4 - 6	884.53	37.19	4.20	19.97	4.32	21.63	6.51	2.17	33.37	19.15	3.32	17.35	205.69	15.73	7.65
GRADES 7 - 8	321.31	18.59	5.78	9.14	2.46	26.92	2.89	1.27	44.15	5.92	1.66	27.98	74.99	7.95	10.60
GRADES 9 - 11	145.78	12.65	8.68	*	*	*	*	*	*	3.55	1.26	35.49	35.03	5.23	14.94
GRADES 12 COMPLETE	51.37	5.84	11.37	*	*	*	*	*	*	1.98	0.85	43.17	12.34	2.70	21.90
HIGHER EDUCATION	20.72	4.58	22.13	*	*	*	*	*	*	*	*	*	4.81	1.62	33.69
TOTAL	11,018.74	169.28	1.54	157.73	16.76	10.62	78.38	13.11	16.72	177.13	16.03	9.05	2,234.85	95.09	4.25

TABLE 5.2

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

## Tigray

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	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. (%)
ILLITERATE	519.41	23.47	4.52	6.28	1.92	30.63	2.52	1.21	47.83	6.46	1.95	30.18	139.07	13.73	9.87
GRADES 1 - 3	91.01	8.14	8.95	*	*	*	1.68	0.82	48.50	2.06	0.79	38.45	28.61	4.87	17.01
GRADES 4 - 6	16.07	2.60	16.18	*	*	*	*	*	*	*	*	*	3.53	1.14	32.28
GRADES 7 - 8	3.57	0.98	27.61	*	*	*	-	-	-	-	-	-	*	*	*
GRADES 9 - 11	*	*	*	-	-	-	-	-	-	-	-	-	*	*	*
GRADES 12 COMPLETE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	631.33	26.70	4.23	8.08	2.40	29.74	4.51	1.95	43.18	8.77	2.31	26.31	172.34	16.85	9.78

TABLE 5.3

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Afar

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	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. (%)
ILLITERATE	33.37	4.36	13.07	*	*	*	*	*	*	0.32	0.15	45.93	0.38	0.17	44.64
GRADES 1 - 3	1.72	0.57	33.00	-	-	-	-	-	-	*	*	*	*	*	*
GRADES 4 - 6	0.37	0.17	47.88	*	*	*	*	*	*	-	-	-	*	*	*
GRADES 7 - 8	0.18	0.08	45.64	-	-	-	-	-	-	-	-	-	-	-	-
GRADES 9 - 11	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
GRADES 12 COMPLETE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	35.69	4.62	12.94	*	*	*	*	*	*	0.39	0.19	48.33	0.53	0.20	37.79

TABLE 5.4

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Amhara

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	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. (%)
ILLITERATE	2,401.67	50.68	2.11	28.93	5.32	18.39	15.83	4.91	31.00	19.86	3.66	18.44	434.78	29.67	6.83
GRADES 1 - 3	517.85	22.36	4.32	6.36	1.77	27.78	2.26	1.13	49.96	4.27	1.54	36.20	120.54	11.47	9.52
GRADES 4 - 6	114.05	10.37	9.09	2.67	1.22	45.93	*	*	*	*	*	*	26.15	4.24	16.24
GRADES 7 - 8	40.49	6.20	15.32	*	*	*	*	*	*	*	*	*	9.22	2.26	24.48
GRADES 9 - 11	20.33	3.85	18.95	-	-	-	-	-	-	*	*	*	6.08	1.89	31.12
GRADES 12 COMPLETE	7.43	2.10	28.31	-	-	-	-	-	-	-	-	-	*	*	*
HIGHER EDUCATION	4.01	1.76	43.89	*	*	*	-	-	-	-	-	-	*	*	*
TOTAL	3,105.83	55.32	1.78	39.60	7.25	18.31	20.27	6.97	34.40	25.41	4.34	17.06	600.97	39.35	6.55



TABLE 5.9

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

## Gambela

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)
ILLITERATE	18.49	2.14	11.57	*	*	*	-	-	-	*	*	*	*	*	*
GRADES 1 - 3	4.03	0.81	19.98	*	*	*	-	-	-	-	-	-	*	*	*
GRADES 4 - 6	5.48	1.39	25.41	*	*	*	-	-	-	-	-	-	-	-	-
GRADES 7 - 8	1.01	0.21	20.68	-	-	-	-	-	-	-	-	-	-	-	-
GRADES 9 - 11	0.64	0.19	29.76	*	*	*	-	-	-	-	-	-	-	-	-
GRADES 12 COMPLETE	0.23	0.10	41.79	*	*	*	-	-	-	*	*	*	-	-	-
HIGHER EDUCATION	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	29.97	3.99	13.30	*	*	*	-	-	-	0.22	0.11	47.87	*	*	*

TABLE 5.10

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

## Harari

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)	Estimate ( <sup>1</sup> 000HA)	S.E ( <sup>1</sup> 000)	C.V. (%)
ILLITERATE	10.19	0.49	4.84	0.45	0.11	23.66	0.43	0.11	25.99	0.97	0.23	23.81	5.69	0.58	10.21
GRADES 1 - 3	1.64	0.23	13.79	0.08	0.03	44.27	0.11	0.05	48.45	0.37	0.09	23.84	1.27	0.22	17.65
GRADES 4 - 6	1.09	0.18	16.77	0.10	0.04	39.38	*	*	*	0.24	0.07	28.20	0.71	0.15	20.83
GRADES 7 - 8	0.32	0.09	28.28	-	-	-	*	*	*	*	*	*	0.20	0.05	26.36
GRADES 9 - 11	0.15	0.07	47.85	*	*	*	*	*	*	*	*	*	*	*	*
GRADES 12 COMPLETE	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*
HIGHER EDUCATION	*	*	*	-	-	-	-	-	-	*	*	*	*	*	*
TOTAL	13.51	0.57	4.23	0.66	0.14	20.64	0.65	0.14	21.63	1.68	0.33	19.67	8.04	0.83	10.29

TABLE 5.11

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Addis Ababa

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	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. (%)
ILLITERATE	4.70	0.65	13.78	0.16	0.06	38.38	*	*	*	0.09	0.03	37.38	1.68	0.19	11.17
GRADES 1 - 3	0.57	0.15	26.56	*	*	*	*	*	*	*	*	*	0.16	0.05	29.41
GRADES 4 - 6	0.52	0.12	24.17	*	*	*	*	*	*	*	*	*	0.15	0.04	25.38
GRADES 7 - 8	0.36	0.12	33.41	*	*	*	*	*	*	-	-	-	0.16	0.06	37.55
GRADES 9 - 11	0.25	0.07	27.57	*	*	*	*	*	*	-	-	-	0.13	0.06	46.60
GRADES 12 COMPLETE	0.25	0.09	35.47	*	*	*	-	-	-	-	-	-	0.10	0.04	36.90
HIGHER EDUCATION	0.10	0.04	36.83	*	*	*	-	-	-	-	-	-	*	*	*
TOTAL	6.74	0.93	13.79	0.34	0.15	43.16	*	*	*	0.11	0.03	30.80	2.40	0.31	12.85

TABLE 5.12

NUMBER OF HOLDERS BY AGRICULTURAL PRACTICES AND EDUCATIONAL ATTAINMENT,  
THEIR STANDARD ERROR AND COEFFICIENT OF VARIATION FOR PRIVATE HOLDINGS  
1999/2000(1992 E.C.)

Dire Dawa

EDUCATIONAL STATUS OF HOLDERS	NUMBER OF HOLDERS WHO APPLIED														
	Total			Improved Seed			Irrigation			Pesticide			Fertilizer		
	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. (%)
ILLITERATE	13.89	0.83	5.95	2.73	0.47	17.16	1.60	0.44	27.61	0.21	0.09	43.60	2.47	0.52	21.13
GRADES 1 - 3	1.15	0.21	18.45	0.22	0.10	45.46	0.22	0.07	31.73	*	*	*	0.32	0.13	41.63
GRADES 4 - 6	0.54	0.14	24.90	*	*	*	*	*	*	*	*	*	0.19	0.06	34.17
GRADES 7 - 8	0.12	0.04	33.78	-	-	-	-	-	-	-	-	-	-	-	-
GRADES 9 - 11	*	*	*	-	-	-	*	*	*	-	-	-	*	*	*
GRADES 12 COMPLETE	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
HIGHER EDUCATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	15.77	0.87	5.50	3.07	0.49	16.02	2.02	0.55	27.34	0.28	0.12	41.02	3.02	0.60	19.86

