

# **CHAPTER VI**

## **FARM MANAGEMENT PRACTICES**

### **1 INTRODUCTION**

Ethiopia is endowed with abundant resource suitable for agriculture. As result of which the agricultural activity in Ethiopia is quite varied being conditioned by such factors as climate, soils topography, ...etc that have favored not only the employment of the majority of the country's population but also served as the main source of input (raw material) for the large and medium Scale industries as well as the main generator of the country's foreign currency earnings.

Though agriculture is the backbone of Ethiopian economy, the sector is characterized by low level of productivity and subsistence farming system, that have resulted to hand to mouth production. Nowadays the problems mentioned have become more acute as a result of two factors. First the number of people is increasing at a rate that doubles the present population of the country in about a generation. Secondly this is occurring at a time when the area of new land suitable for cultivation is rapidly diminishing.

Even though traditional practice such as use of animal dung and crop residue crop rotation and expanding cultivable cropland had helped a lot to increase productivity, the problem mentioned above has become more acute and beyond the limits of the traditional practices which of course had already been exhausted. Hence, the scale of severity of the country's food problem will be so great that a massive short and long-range innovative efforts will be required to solve it.

As a result, increasing productivity on various field crops is the only realistic option to raise the living standards of the rural population, and to ensure food security and poverty alleviation. There are many modern techniques and technologies of achieving enhanced crop productivity. Accordingly, the major factors behind achieving high level of crop productivity increases are greater and more efficient use of fertilizers, wide spread uses of improved variety seeds, pesticides, expanded use of irrigation and effective extension services. Thus, during the 2001/02 Agricultural Sample Enumeration, basic data on agricultural inputs and practices were collected, processed and the results are presented in this chapter.

In general, this chapter deals with the agricultural census data that indicates the type of inputs applied, quantity of inputs applied, the irrigated cropland area, estimates of cropland area damage, number of holders who applied different agricultural inputs and farm management practices, and number of holders covered by extension package programs in Somali region. However, the census covers only Shinele and Erer Weredas from Shinele Zone, Jijiga, TeferiBer and Kebri Beyah weredas from Jijiga Zone and Filtu, Dolo Odo and Moyale weredas from Liben Zone. Thus, for these areas of the region data are presented for private holdings in rural areas for both Meher and Belg seasons, and urban areas of holdings for Meher season. For urban areas, data are collected and presented only to the inputs applied and the irrigated cropland area and number of holders who applied farm inputs. Moreover, this chapter presents statistical tables 6.1 - 6.56 that shows the results of the census at zonal and wereda levels. In the Annex to this chapter are also given tables showing estimates, standard errors (S.E) and coefficient of variation (C.V), i.e. in Tables 6.1 and 6.2 for some relevant variables.

## **2 CROPLAND AREA UNDER AGRICULTURAL INPUTS AND FARM MANAGEMENT PRACTICES**

This section of the chapter deals with the agricultural inputs applied and the irrigated cropland area for both rural and urban areas of Somali Region\*. Agricultural holders in the sampled households were asked whether they have applied agricultural inputs on their fields or not and the area of all plots operated by the holders were actually measured objectively for private holdings in rural areas. While in urban areas all types of data on farm practices were obtained by interview methods. This helped to estimate area under total crop, irrigated land, fertilizers, pesticides and improved seeds used during the agricultural year. Following data on area under agricultural farm inputs for Somali Region are briefly discussed.

The census data show that Somali Region predominantly produces grain crops and the major crops either in terms of the magnitude of area and volume of production includes maize, sorghum and wheat, that accounted for about 75.46% of the area cultivated under all crops. On the other hand, vegetables and root crops are not widely grown as grains in the region particularly in terms of crop area coverage. As a result, the agricultural inputs were applied to a great extent on the area under grain crops in order to increase the volume of production. Among different types of

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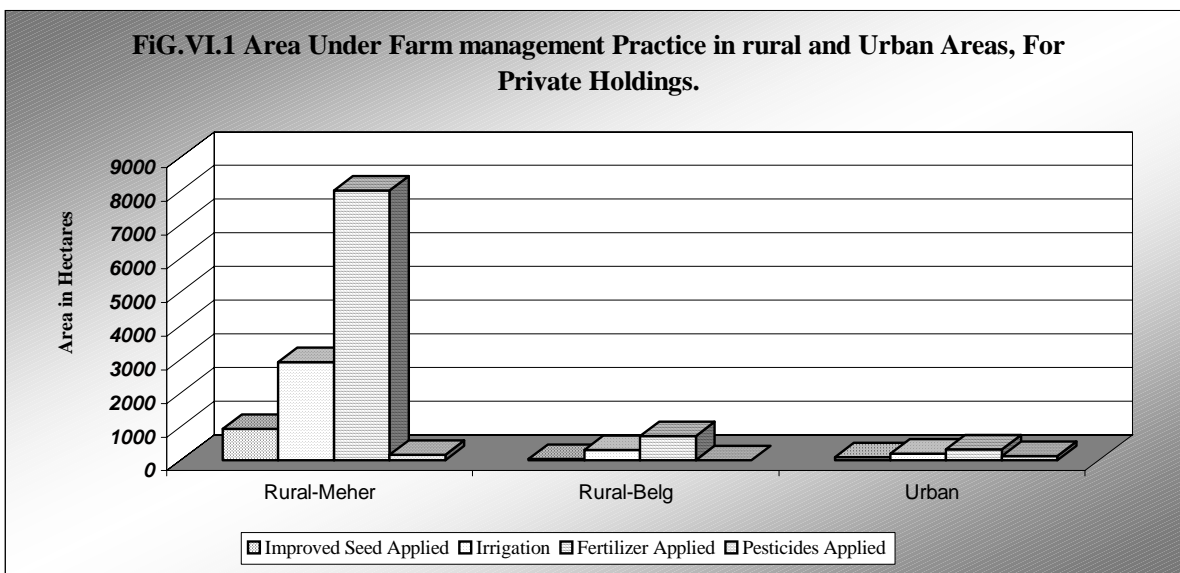
\* It should be noted that the results of Somali Region refers to only 8 weredas that are found in Shinele, Jijiga and Liben Zones and indicated in the introductory section of this chapter.

agricultural inputs that were applied, it is found that fertilizers application had relatively high coverage of area under grain crops. Moreover, the census data indicate that vast majority of agricultural holders have used agricultural inputs on small size of holdings. In general, the holders in the region as a whole have practiced modern agricultural techniques and technologies but in a much smaller extent.

## **2.1 Fertilized Cropland Areas**

The effects of fertilizers on improving the efficiency of crop production are well known and can be hardly over emphasized. Moreover, the fertilizing materials and mixture are not restricted to inorganic chemicals but include organic substances such as crop residue animal dung, .. etc. Therefore, fertilizers refer to anything added to the soil with the intention of increasing the amount of plant nutrients available for crop growth. In the census, data on application, type and quantity of natural and chemical fertilizers were collected. The Natural fertilizers consisted of animal dung and compost while chemical fertilizers consisted of DAP (Di-Ammonium phosphate) and UREA (Ammonium Nitrate).

Although fertilizers are one of the very important agricultural inputs to increase the level of production, in Somali region fertilizers were applied on only 8,321 hectares (10.651%) of the total cultivated cropland area. Of this total area fertilized cropland, the share of rural areas was found to be 96.29%. Moreover, the proportion of total fertilized cropland areas in rural areas for Meher season was 7,311 hectares (87.86%) as compared to only 701 hectares (8.42%) for Belg season. Regarding private holdings in urban areas, data are collected and presented only for Meher season i.e 310 hectares (3.73%) was reported to be fertilized cropland area. For details, refer to Summary Table VI.1 and Fig VI.1.



Furthermore, out of the total fertilized cropland areas, 80.07% were under cereals, 2.09% under pulses, 0.49% under vegetables, 0.78% under root crops, and 1.39% under fruits and 14.97 under stimulants. Most of the fertilized cropland areas in the region were allotted to cereals in both rural and urban areas (See Summary Table VI.1).

With regard to a specific crop, maize is the most important fertilized crop that comprised an area of (3204 hectares) which is about 38.50% of the total cropland area under fertilizers. The second important fertilized crop is sorghum covering 2272 hectares (27.30%) of the total cropland area under fertilizers. Chat ranks third taking up 14.95% of the total cropland area under fertilizers. For details, refer to Summary Table VI.2. Moreover, fertilizer applied cropland areas by zone for private holdings in rural and urban areas are presented in Summary Table VI.3. As can be seen from this table, the total fertilizer applied cropland areas differ from zone to zone. The census data indicate that Jijiga Zone has relatively the highest share from the total fertilizer applied cropland area i.e (85.70%) as compared to Shinele and Liben zones which contributed about 2.78% and 11.54% to the total regional fertilized crop land area, respectively.

## 2.2 Cropland Areas Treated with Pesticides

Pesticides are chemicals that are used for the control of mitigation or elimination of pests that are detrimental to crops. Examples of pesticides are insecticides, herbicides and fungicides. Summary Table VI.1 reveals that the total cropland area treated with pesticides was estimated to

be 273 hectares. This indicates that less than one percent of the total cultivated cropland areas were treated with pesticides. Of the total cropland areas treated with pesticides, the share of rural and urban areas was found to be 57.14% and 42.86%, respectively. Thus, private holdings in rural areas had the highest share, while the contribution of the urban areas to the total pesticide applied cropland area was limited in scale. Moreover, the total pesticides applied cropland areas in rural areas of the region for Meher season was 55.68 percent For details see Summary Table VI.1.

Furthermore, most of the pesticide applied land areas in the region was under cereal crops (about 72.89%) where as only 0.37% and 1.47% of the fields under vegetables and fruits were treated with pesticides. More over, out of all cropland areas on which pesticides are applied, maize and sorghum accounted for about 80 and 78 hectares, respectively. For Details, see Summary Tables VI.1 and VI.2. Moreover, Cropland areas treated with pesticides by zone for private holdings in rural and urban areas are presented in Summary Table VI.3. As can be seen from the data in this table, the total cropland areas treated with pesticides differ from zone to zone. The census data indicate that Jijiga zone has relatively the highest share from the total pesticides treated cropland area i.e (65.57%) as compared to Shinele and Liben zones which contributed about 5.49% and 29.30% to the regional pesticides treated cropland area, respectively.

### **2.3 Cropland Areas on which Improved Seeds are Used**

Improved seeds are defined as crop varieties that give significantly higher yield and better quality compared to locally produced varieties of seeds. As illustrated in Summary Table VI.1, the total cultivated cropland area was estimated at 78,105 hectares. Of this total, only 1,000 hectares (1.28% of the total crop land area) was sown with improved variety of seeds. The share of rural and urban areas was found to be 92.10 percent and 7.90 percent of the total cropland areas on which improved seeds are used, respectively. Like other inputs, the private holdings in the rural areas during Meher season had the highest share; while the contribution of the private holdings in urban areas to the total improved seeds applied cropland area in the region was limited in scale. The share of Belg season to the total improved seed applied cropland area is about 2.90% (See Fig VI.1)

Summary Table VI.1 also presents the total cropland area with application of improved agricultural practices and inputs by crop category for private holdings in rural and urban areas. The data in this table indicate that 85.90% and 4.90% of the total area under improved seeds was reported to be under cereals and pulses, respectively. While oil seeds, vegetables and other permanent crops covered the remaining area on which improved seeds are applied. In both the rural and urban areas of private holdings, land areas under cereals constituted the highest proportion of improved seeds as compared to other crops.

Moreover, crop land areas under improved seeds by zone for private holdings in rural and urban areas of the three zone covered in the region are presented in Summary Table VI.3. As can be seen from this table, the total cropland area under each agricultural inputs show variation among the zones. The census data indicate that Jijiga zone has relatively the highest share from the total cropland area on which improved seeds are used (67.10%) as compared to Shinele zone (4%) and Liben zone (28.9%).

## **2.4 Cropland Areas Under Irrigation**

The increase in crop production, to keep pace with the increased population demand, can be achieved among others by the efficient utilization of irrigation practices. Moreover,

irrigation practices make possible the utilization of advanced technology in farming: these include the proper application of fertilizers, the adoption of good crop rotation practices and the use of better seed varieties.

Irrigated cropland areas refer to the practice where an area of land is purposely and actually provided with water, other than the precipitation obtained from rain to improve the production of crops. The uncontrolled flooding of land by the overflow of rivers or streams is not considered to be as practice of irrigation.

The census data show that the cropland areas that are actually irrigated in the three zones covered in the region was only 3,101 hectares and this accounted for about 3.97 percent of the total cropland areas. Of course, the estimated total irrigated cropland areas, was contributed from irrigation scheme operated in the rural and urban areas. Of the given total irrigated cropland area, the share of rural and urban areas was to be 93.91% and 6.09%, respectively. Thus, there is large

difference in the size of the total irrigated cropland area between rural and urban areas (See summary Tables VI.1 and VI.2).

Moreover, of the total irrigated cropland areas in rural areas, the Meher season contributed 84.36% compared to 9.55% for Belg. As indicated in Summary Table VI.1, out of the total irrigated cropland area in the region 64.56% under cereals, 2.81 % under pulses, 1.74% under vegetables, 4.32% under root crops, 12.71% under fruits, 13.03% under stimulants and 0.06% under other permanent crops. In both rural and urban areas, the proportion of area under irrigation for cereal crops was the highest as compared to other crops with regard to specific crops maize at 1,180, sorghum at 733 and chat at 379 hectares reported the largest area of land under irrigation. The Census data in Summary Table VI.3 indicate that irrigated cropland area was relatively highest in Liben Zone (39.21%) followed by Jijiga Zone 31.02% and then Shinele Zone taking up 29.706% of the total regional irrigated cropland area.

### **3 HOLDERS APPLYING FERTILIZERS, AREA, AND QUANTITY OF FERTILIZERS APPLIED**

In 2001/02 Agricultural Sample Enumeration, the total number of holders applying fertilizers in Somali Regional State, is estimated to be about 17,329. Of these total private holders, about 16,821 holders (97.07%) were in rural and about 2.93% in urban areas. The application of fertilizers in Meher and Belg seasons for private holdings in rural areas shows a great variation, that is, 89.92% of the holders applied fertilizers in Meher season while only 9.79 perce0nt applied in Belg season (See Summary Tables VI.4).

With regard to the type of fertilizers applied, the great majority of holder's applied natural fertilizers (16,244) and a total of 1546 holders' utilized chemical fertilizer. Out of the estimated total number of holders who have utilized chemical fertilizers about 422, 426 and 717 holders have applied DAP, UREA and a mixture of DAP and UREA on their holdings, respectively. On the other hand in urban areas of the region only 106 holders utilized chemical fertilizers.

Among the types of fertilizers used, natural fertilizers was applied in larger cultivated cropland area, which is about 7663 hectares (92.09% of fertilized cropland area). Next to natural fertilizers, chemical fertilizers were applied on about 658 hectares of cropland area, where 589

hectares were in rural areas and the remaining 69 hectares of cropland was in urban areas of the region. In rural areas of the region 134, 167 and 289 hectares of cropland was covered by DAP, UREA and by a mixture of DAP and UREA, respectively (See Fig VI.2 and Summary Table VI.4 and VI.5).

Furthermore, the data in Summary Table VI.4 indicates that the total quantity of chemical fertilizers applied by holders in the rural areas was estimated at about 435 quintals, of which, the share of the mixture of DAP and UREA was the highest accounting for about 80.46 percent of the total quantity of chemical fertilizers applied. This is followed by DAP accounting for about 7.59 percent, while the share of UREA was insignificant (See Fig VI.3 and Summary Table VI.4).

Moreover, the total amount of Chemical fertilizers applied on cropland areas by zone is presented in Summary Table VI.9. The data in the table shows that the highest quantity of chemical fertilizers application was reported in Jijiga Zone 98.39% while almost none is reported for Shinele and Liben zones each.

### **3.1 Application of Natural Fertilizers in the Rural and Urban Areas**

According to the census findings, about 16,244 holders in rural areas have applied natural fertilizers on 7663 hectares of cropland (comprising 92.09% of the total fertilized land area). Of the total cropland area on which natural fertilizers are applied, the share of Meher and Belg season in rural areas was 80.82 and 8.39 percent, respectively. Moreover, of the total land area on which natural fertilizers are applied 80.46% was under cereals, 2.17% under pulses, 0.48% under vegetables, 0.67% under root crops 0.93% under fruits and 15.18% under stimulants crops. For details, refer to Summary Tables VI.4 .

### **3.2 Application of DAP in the Rural Areas**

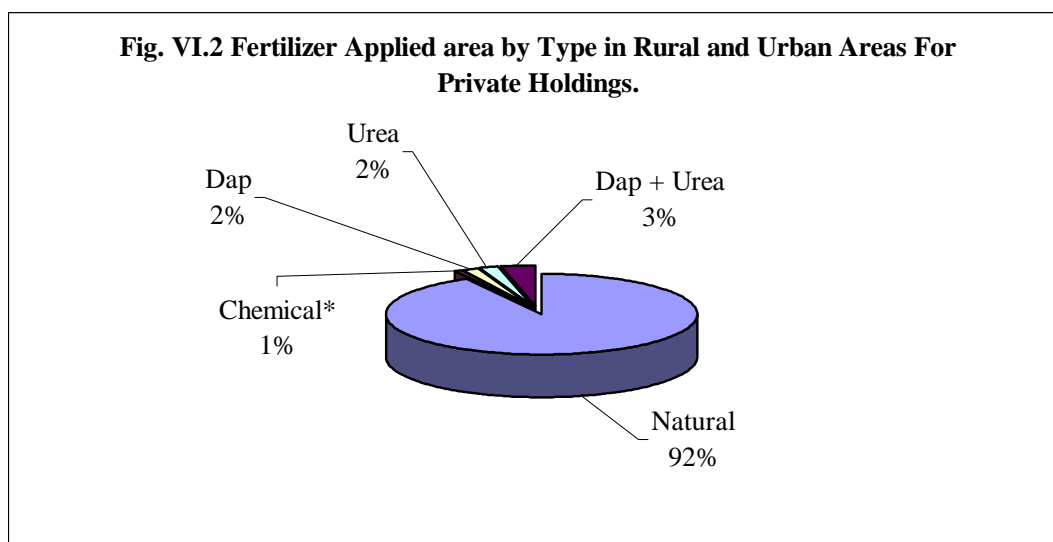
As illustrated in Summary Table VI.4, about 422 holders in rural areas have applied DAP on about 134 hectares, which is about 1.61% of the total fertilized cropland area. Cropland areas under the application of DAP varied markedly from one group of crops to another, i.e., 57.46% and 17.16% of the total DAP was applied for cereals and stimulants, respectively. While the



remaining was applied on pulses, vegetables, root crops and fruit crop categories. Variations in the application of fertilizers with respect to specific crops are also considerable, i.e., relatively it is higher for Chat (For details, refer to Summary Tables VI.4 and VI.5). Furthermore, the total quantity of DAP applied in rural areas is estimated to be about 33 quintals, which is 7.59% of the total quantity of chemical fertilizers applied. In general, the quantity of DAP applied was the highest for cereals (87.88%).

### 3.3 Application of UREA in the Rural Areas

About 426 holders in rural areas have applied UREA, and the cropland areas under UREA occupied 167 hectares, which is 2.01% of the total fertilizers applied cropland area (See Summary Table VI.4 and VI.5). Cropland areas under the application of UREA varied markedly from one group of crops to another, i.e., 72.46% of the total UREA was applied for cereals, while the remaining was applied on land under vegetables, root crops, fruits and other permanent crop categories. Variations with respect to specific crops are also observed (For details, refer to Summary Tables VI.4 and VI.5).



\* Chemical fertilizer refers to Urban Areas only.

**SUMMARY TABLE VI.1: Total Area Under Improved Farm Management Practices  
by Crop Categories in Rural and Urban Areas, Both Seasons, for Private Holdings.**

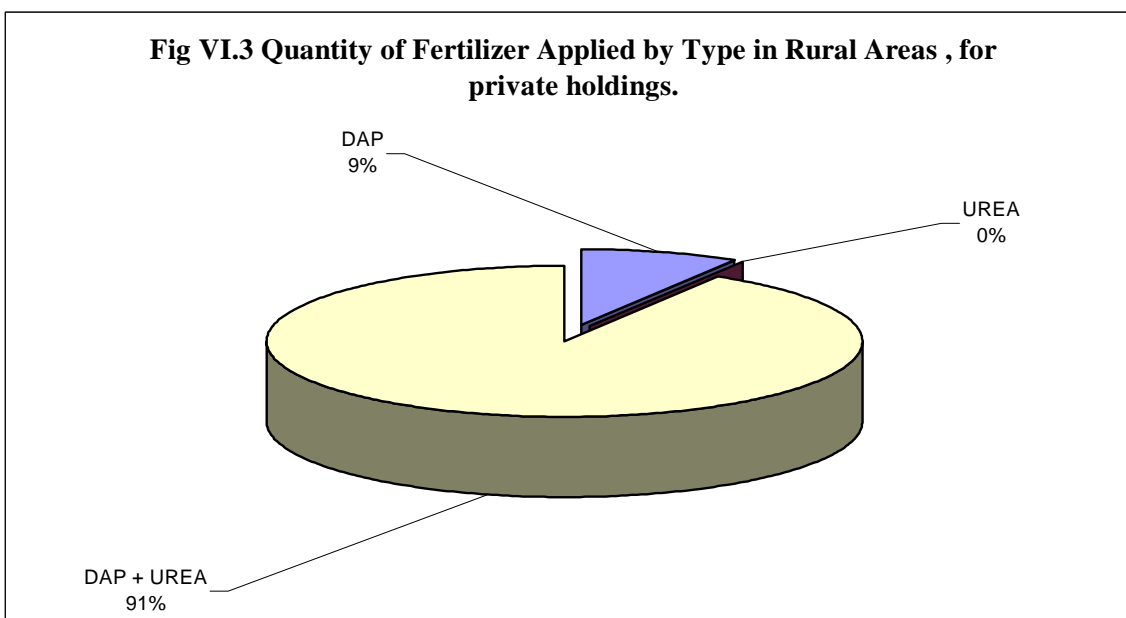
ITEM	Area in Hectares									
	Total	Grains				Vegetables	Root Crops	Permanent Crops		
		Cereals	Pulses	Oilseeds	Others			Fruits	Stimulant	Other
Total Area										
Rural and Urban ..	78105	66091	1905	505	526	115	847	438	7665	*
Rural.....	76271	64407	1848	497	526	105	830	423	7624	*
Meher.....	68257	57041	1347	493	523	97	697	423	7624	*
Belg.....	8015	7366	501	*	*	8	*	*	*	*
Urban (Meher) ....	1834	1684	57	*	*	10	17	15	42	1
Improved Seeds										
Rural and Urban ..	1000	859	49	*	*	*	*	*	*	*
Percent..	100	85.90	4.90	*	*	*	*	*	*	*
Rural.....	921	786	49	*	*	*	*	*	*	*
Percent..	92.10	85.34	5.32	*	*	*	*	*	*	*
Meher.....	892	765	44	*	*	*	*	*	*	*
Percent..	89.20	85.76	4.93	*	*	*	*	*	*	*
Belg.....	29	20	*	*	*	*	*	*	*	*
Percent..	2.90	68.97	*	*	*	*	*	*	*	*
Urban (Meher) ....	79	73	*	1	*	*	*	*	*	*
Percent..	7.90	92.41	*	1.27	*	*	*	*	*	*
Irrigation										
Rural and Urban ..	3101	2002	87	*	*	54	134	394	404	2
Percent..	100.00	64.56	2.81	*	*	1.74	4.32	12.71	13.03	0.06
Rural.....	2912	1883	53	*	*	47	122	389	398	2
Percent..	93.91	64.66	1.82	*	*	1.61	4.19	13.36	13.67	0.07
Meher.....	2616	1631	49	*	*	43	88	389	398	2
Percent..	84.36	62.35	1.87	*	*	1.64	3.36	14.87	15.21	0.08
Belg.....	296	252	*	*	*	4	34	*	*	*
Percent..	9.55	85.14	*	*	*	1.35	11.49	*	*	*
Urban (Meher) ....	189	119	35	*	*	7	12	5	5	*
Percent..	6.09	62.96	18.52	*	*	3.70	6.35	2.65	2.65	*
Fertilizer										
Rural and Urban ..	8321	6663	174	*	*	41	65	116	1246	*
Percent..	100.00	80.07	2.09	*	*	0.49	0.78	1.39	14.97	*
Rural.....	8012	6424	144	*	*	39	58	112	1227	*
Percent..	96.29	80.18	1.80	*	*	0.49	0.72	1.40	15.31	*
Meher.....	7311	5778	99	*	*	38	48	112	1227	*
Percent..	87.86	79.03	1.35	*	*	0.52	0.66	1.53	16.78	*
Belg.....	701	646	45	*	*	1	*	*	*	*
Percent..	8.42	92.15	6.42	*	*	0.14	*	*	*	*
Urban (Meher) ....	310	239	31	*	*	2	*	4	20	*
Percent..	3.73	77.10	10.00	*	*	0.65	*	1.29	6.45	*
Pesticides										
Rural and Urban ..	273	199	*	*	*	1	*	4	*	*
Percent..	100.00	72.89	*	*	*	0.37	*	1.47	*	*
Rural.....	156	111	*	*	*	*	*	*	*	*
Percent..	57.14	71.15	*	*	*	*	*	*	*	*
Meher.....	152	108	*	*	*	*	*	*	*	*
Percent..	55.68	71.05	*	*	*	*	*	*	*	*
Belg.....	*	*	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Urban (Meher) ....	117	88	*	*	*	1	*	*	3	*
Percent..	42.86	75.21	*	*	*	0.85	*	*	2.56	*

**SUMMARY TABLE VI.2: Total Area Under Improved Seed, Irrigation, Fertilizer, and Pesticide  
by Type of Crops in Rural and Urban Areas, for Private Holdings**

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL .....	78105	1000	1.28	3101	3.97	8321	10.65	273	0.35
Grain Crops.....	69027	910	1.32	2113	3.06	6852	9.93	228	0.33
Cereals .....	66091	859	1.3	2002	3.03	6663	10.08	199	0.3
Teff .....	*	-	-	-	-	2	*	-	-
Barley .....	6639	*	*	*	*	*	*	*	*
Wheat.....	8518	136	1.6	*	*	851	9.99	36	0.42
Maize .....	28299	414	1.46	1180	4.17	3204	11.32	80	0.28
Sorghum .....	22123	269	1.22	733	3.31	2272	10.27	78	0.35
Finger millet .....	*	-	-	-	-	*	*	-	-
Oats ('Aja') .....	437	*	*	-	-	*	*	-	-
Rice.....	-	-	-	-	-	-	-	-	-
Pulses .....	1905	49	2.57	87	4.57	174	9.13	*	*
Horse beans .....	*	-	-	-	-	-	-	-	-
Field peas .....	89	*	*	-	-	2	2.25	-	-
Haricot beans .....	1224	43	3.51	86	7.03	164	13.4	*	*
Chick peas .....	416	*	*	*	*	*	*	-	-
Lentils .....	84	*	*	-	-	-	-	-	-
Vetch.....	*	-	-	-	-	-	-	-	-
Soya .....	*	-	-	-	-	-	-	-	-
Fenugreek .....	57	-	-	-	-	-	-	-	-
Gibto .....	-	-	-	-	-	-	-	-	-
Oil Seeds .....	505	*	*	*	*	*	*	*	*
Neug .....	*	-	-	*	*	-	-	-	-
Linseed .....	446	-	-	-	-	-	-	-	-
Ground nuts .....	*	*	*	-	-	*	*	-	-
Sufflower .....	-	-	-	-	-	-	-	-	-
Sesame .....	*	-	-	*	*	*	*	*	*
Rapeseed.....	-	-	-	-	-	-	-	-	-
Other Grains .....	526	-	-	*	*	*	*	-	-
Vegetables .....	115	*	*	54	46.96	41	35.65	1	0.87
Lettuce .....	1	-	-	1	100	*	*	-	-
Head cabbage .....	9	*	*	*	*	*	*	-	-
Kale.....	*	-	-	*	*	*	*	-	-
Tomatoes .....	74	*	*	39	52.7	*	*	*	*
Green peppers .....	14	-	-	*	*	3	21.43	*	*
Red peppers .....	*	-	-	-	-	-	-	-	-
Swiss chard .....	*	-	-	*	*	-	-	-	-
Others .....	*	-	-	-	-	*	*	-	-
Root Crops.....	847	*	*	134	15.82	65	7.67	*	*
Beet root .....	*	*	*	*	*	*	*	-	-
Carrot.....	*	-	-	*	*	*	*	-	-
Onions.....	343	*	*	49	14.29	35	10.2	*	*
Potatoes.....	47	-	-	*	*	12	25.53	*	*
Garlic .....	270	-	-	*	*	*	*	*	*
Taro .....	-	-	-	-	-	-	-	-	-
Sweet potatoes .....	182	*	*	70	38.46	*	*	-	-
Others .....	-	-	-	-	-	-	-	-	-
Permanent Crops .....	8116	*	*	800	9.86	1362	16.78	*	*
Fruit Crops.....	438	*	*	394	89.95	116	26.48	4	0.91
Avocado.....	-	-	-	-	-	-	-	-	-
Bananas.....	191	8	4.19	185	96.86	29	15.18	*	*
Guava .....	40	*	*	*	*	*	*	*	*
Lemons .....	35	*	*	32	91.43	11	31.43	*	*
Mangoes .....	42	*	*	35	83.33	7	16.67	*	*
Oranges .....	55	*	*	54	98.18	19	34.55	*	*
Papayas .....	61	*	*	59	96.72	*	*	*	*
Pineapples .....	-	-	-	-	-	-	-	-	-
Others .....	*	-	-	5	*	*	*	-	-
Stimulant Crops .....	7665	-	-	403	5.26	1246	16.26	*	*
Chat.....	7636	-	-	379	4.96	1244	16.29	*	*
Coffee .....	*	-	-	*	*	3	*	-	-
Hops .....	*	-	-	-	-	-	-	-	-
Others .....	-	-	-	-	-	-	-	-	-
Other Permanent .....	*	-	-	2	*	*	*	-	-
Enset .....	2	-	-	*	*	-	-	-	-
Sugar Cane .....	1	-	-	1	100	*	*	-	-
Others .....	*	-	-	*	*	-	-	-	-

**SUMMARY TABLE VI.3: Area Under Agricultural Inputs and Irrigation Practices by Season and Zones in Rural and Urban Areas, for Private Holdings**

Practices	Area under Agricultural Inputs and Irrigation in Hectares							
	Rural and Urban	Percent	Rural Meher	Rural Belg	Rural	Percent	Urban Meher	Percent
<b>Somali Killil</b>								
Irrigation ....	3101	100	2615	296	2911	100	189	100
Imroved seeds..	1000	100	892	29	921	100	79	100
Pesticides.....	273	100	152	*	156	100	117	100
Fertilizer.....	8321	100	7311	701	8012	100	309	100
<b>Shinele</b>								
Irrigation ....	923	29.76	801	109	910	31.26	13	6.88
Imroved seeds..	40	4.00	34	-	34	3.69	5	6.33
Pesticides.....	15	5.49	13	-	13	8.33	*	*
Fertilizer.....	231	2.78	210	11	221	2.76	10	3.24
<b>Jijiga</b>								
Irrigation ....	962	31.02	885	*	938	32.22	23	12.17
Imroved seeds..	671	67.10	612	-	612	66.45	59	74.68
Pesticides.....	179	65.57	117	*	120	76.92	59	50.43
Fertilizer.....	7131	85.70	6795	*	6919	86.36	211	68.28
<b>Liben</b>								
Irrigation ....	1216	39.21	929	134	1063	36.52	153	80.95
Imroved seeds..	289	28.90	246	29	275	29.86	*	*
Pesticides.....	80	29.30	*	*	*	*	*	*
Fertilizer.....	960	11.54	305	566	871	10.87	88	28.48



### 3.4 Application of a Mixture of DAP and UREA in the Rural Areas

The census findings depicts the fact that holders have applied a mixture of DAP and UREA on their crop fields. As presented in Summary Table VI.6 there were about 717 holders in rural areas who have applied a mixture of DAP and UREA on 289 hectares, which is 3.47% of the total area on which fertilizers were applied. The application of a mixture of DAP and UREA to cereals and stimulants covered 245 and 33 hectares, respectively. It was observed that the application of a mixture of UREA and DAP is almost non for other crops relative to cereals and stimulants.

In addition, out of the total quantity of chemical fertilizers applied, the amount of a mixture of DAP and UREA was 350 quintals, which is 80.461% of the total quantity of chemical fertilizers applied. Of the total quantity of the mixed chemical fertilizers are applied, maize took the highest proportion accounting for almost 86.57% (303 quintals). For details, refer to Summary Tables VI.4 and VI.5.

#### **4        HOLDERS UTILIZING IMPROVED SEEDS AND QUANTITY OF IMPROVED SEEDS USED**

In the 2001/02 Agricultural Sample Enumeration, data on number of holders that have used improved seeds and quantity of seeds used was collected. Hence, the number of holders that have used improved variety seeds and quantity of improved cereals, pulses and oil seeds are presented in Summary Table VI.6.

Furthermore, the total amount of improved seeds used by zone is presented in Summary Table VI.7. The data in the table shows that the highest quantity of improved seeds was reported in Jijiga zone 71.75% while it was 0.68 in Shinele Zone and almost non in Liben Zone.

##### **4.1 Number of Holders using Improved Seeds.**

As portrayed in Summary Table VI.6 the use of improved seeds is limited to only 2,607 holders in rural and 64 holders in urban areas of the region. Of the total holders using improved seeds, 50.92% utilized improved maize seeds, 34.37% improved sorghum seeds, 16.25% improved wheat seeds, and 9.96% utilized improved variety of haricot bean seeds.

#### 4.2 Quantity of Improved Seeds Used

Information on quantity of improved varieties of seeds is limited to grain crops only. As can be seen from Summary Table VI.6, the total quantity of improved seeds was estimated to be 485 quintals, of which the share of Meher season was 79.16% (384 quintals). The total quantity of improved seeds used has been low for private holdings in rural areas of the region. As can be seen from the data, the low utilization of improved seeds obviously indicates that holders' continued to rely on low yielding local/traditional seeds. Moreover, out of the total quantity of improved seed utilized, about 20% and 3.30% were accounted for maize and sorghum, respectively. Details are given in Summary Table VI.6

## 5 FARM MANAGEMENT PRACTICES AND EDUCATIONAL ATTAINMENT OF HOLDERS

This section of the chapter presents data on educational attainment of holders in relation to their farm management practices. At the time of enumeration all holders in the sampled households were asked to state their educational attainment. As presented in Summary Table VI.8 data on literacy status and highest grade completed for literate holders were collected. The census findings indicate that the level of educational attainment of the holders in Somali Region is very low. Thus, this situation may have a direct impact on the level of awareness of the holders with respect to better and improved farming technologies and this is a typical characteristics of peasant community in developing countries. A large number of holders (73.24% in rural and 56.71 % in urban areas) were found to be illiterate, while 21.67% in rural and 21.61% in urban areas have participated in informal education.

SUMMARY TABLE VI.4: Number of Holders Applying Fertilizers, Area Under Fertilizers and Quantity of Fertilizers Applied by Type in Rural and Urban Areas, for Private Holdings

[illegible]



Percent..	-	-	-	-	-	-	-	-	-	-	-
UREA .....	*	*	-	-	-	*	-	-	-	-	-
Percent..	*	*	-	-	-	*	-	-	-	-	-
DAP+UREA.....	*	-	-	-	-	-	*	-	-	-	-
Percent..	*	-	-	-	-	-	*	-	-	-	-

To avoid duplication number of holders that applied fertilizers in rural and urban areas for private holdings do not add up to the totals.

Hence, the sum of estimates may not be equal to the tota

Moreover, the data shows that 3.76% of the holders in rural and 8.61% of holders in urban areas have completed grades 1 to 6 and only 1.27% of the holders in rural and 12.51 % in urban areas have completed grades 7-12.

Furthermore, around 0.61% of the holders in rural areas had completed an educational level of above grade 12 (i.e. college/university). These estimates show that holders in urban areas are relatively more literate than those in the rural areas. This could probably be attributed to better access to school and/or better awareness of the importance of education among the holders in the urban than those in the rural areas.

Moreover, the total number of holders participating in the agricultural extension package programs was 1468, which is only 1.61 percent of the total holders in the region. Of the total holders participating in the extension programs, 1346 holders were in Meher season and 121 holders were in Belg season.

SUMMARY TABLE VI.5: Number of Holders Applying Fertilizers, Fertilized Area, and Quantity of Fertilizers by Crop Type in Rural and Urban Areas, for Private Holdings.

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
	Holders	Hectares	Natural			Chemical – DAP	
			Holders	Hectares	Holders	Hectares	Quintals
TOTAL .....	17329	8321	16244	7663	422	134	33
Grain Crops .....	15074	6852	14200	6341	317	78	29
Cereals .....	14910	6663	14032	6166	317	77	29
Teff .....	8	2	*	*	-	-	-
Barley .....	1684	*	1599	*	*	*	*
Wheat .....	3116	851	2391	550	140	*	*
Maize .....	10998	3204	10584	3116	*	*	*
Sorghum .....	6534	2272	6137	2180	*	*	*
Finger millet .....	*	*	*	*	-	-	-
Oats ('Aja') .....	300	*	300	*	-	-	-
Rice .....	-	-	-	-	-	-	-
Pulses .....	1377	174	1325	166	*	*	-
Horse beans .....	-	-	-	-	-	-	-
Field peas .....	*	2	17	1	*	*	-
Haricot beans .....	1281	164	1249	157	-	-	-
Chick peas .....	*	*	*	*	-	-	-
Lentils .....	-	-	-	-	-	-	-
Vetch .....	-	-	-	-	-	-	-
Soya .....	-	-	-	-	-	-	-
Fenugreek .....	-	-	-	-	-	-	-
Gibto .....	-	-	-	-	-	-	-
Oil Seeds .....	*	*	*	*	-	-	-
Neug .....	-	-	-	-	-	-	-
Linseed .....	-	-	-	-	-	-	-
Ground nuts .....	*	*	*	*	-	-	-
Sufflower .....	-	-	-	-	-	-	-



Sesame.....	*	*	-	-	-	-	-
Rapeseed.....	-	-	-	-	-	-	-
Other Grains.....	*	*	*	*	*	*	*
Vegetables.....	688	41	555	37	*	*	*
Lettuce.....	*	*	*	*	-	-	-
Head cabbage.....	*	*	*	*	-	-	-
Kale.....	*	*	*	*	-	-	-
Tomatoes.....	428	*	331	*	*	*	*
Green peppers.....	130	3	124	*	-	-	-
Red peppers.....	-	-	-	-	-	-	-
Swiss chard.....	-	-	-	-	-	-	-
Others.....	*	*	*	*	-	-	-
Root Crops.....	1438	65	1214	51	*	*	*
Beet root.....	*	*	*	*	-	-	-
Carrot.....	*	*	-	-	-	-	-
Onions.....	552	35	498	26	-	-	-
Potatoes.....	582	12	478	9	*	*	*
Garlic.....	*	*	*	*	-	-	-
Taro ('Godere').....	-	-	-	-	-	-	-
Sweet potatoes.....	*	*	85	5	*	*	*
Others.....	-	-	-	-	-	-	-
Permanent Crops.....	7877	1362	7410	1234	180	*	*
Fruit Crops.....	1076	116	1000	71	*	*	*
Avocado.....	-	-	-	-	-	-	-
Bananas.....	277	29	274	28	-	-	-
Guava (Zeytuna).....	170	*	145	*	*	*	*
Lemons.....	232	11	232	11	-	-	-
Mangoes.....	306	7	306	7	-	-	-
Oranges.....	260	19	234	14	*	*	*
Papayas.....	355	*	330	3	*	*	*
Pineapples.....	-	-	-	-	-	-	-
Others.....	150	*	103	2	*	*	*
Stimulant Crops.....	7156	1246	6718	1163	155	23	*
Chat.....	7119	1244	6681	1160	155	23	*
Coffee.....	44	3	44	3	-	-	-
Hops.....	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-
Other Permanent.....	41	*	41	*	-	-	-
Enset.....	-	-	-	-	-	-	-
Sugar Cane.....	41	*	41	*	-	-	-
Others.....	-	-	-	-	-	-	-

SUMMARY TABLE VI.5 Contd.

CROP	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical - DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
TOTAL.....	426	167	*	717	289	350	106	69
Grain Crops.....	310	121	*	628	253	344	99	60
Cereals.....	310	121	*	628	245	344	99	53
Teff.....	-	-	-	-	-	-	4	1
Barley.....	-	-	-	*	*	-	14	7
Wheat.....	149	*	*	414	182	303	21	6
Maize.....	*	*	*	*	*	*	54	30
Sorghum.....	*	*	*	*	*	*	36	10
Finger millet.....	-	-	-	-	-	-	-	-
Oats ('Aja').....	-	-	-	-	-	-	-	-
Rice.....	-	-	-	-	-	-	-	-
Pulses.....	-	-	-	*	*	-	-	-
Horse beans.....	-	-	-	-	-	-	-	-
Field peas.....	-	-	-	-	-	-	-	-
Haricot beans.....	-	-	-	*	*	-	-	-
Chick peas.....	-	-	-	-	-	-	-	-
Lentils.....	-	-	-	-	-	-	-	-
Vetch.....	-	-	-	-	-	-	-	-
Soya.....	-	-	-	-	-	-	-	-
Fenugreek.....	-	-	-	-	-	-	-	-
Gibto.....	-	-	-	-	-	-	-	-
Oil Seeds.....	-	-	-	-	-	-	*	*
Neug.....	-	-	-	-	-	-	-	-
Linseed.....	-	-	-	-	-	-	-	-
Ground nuts.....	-	-	-	-	-	-	-	-
Sufflower.....	-	-	-	-	-	-	-	-
Sesame.....	-	-	-	-	-	-	*	*
Rapeseed.....	-	-	-	-	-	-	-	-
Other Grains.....	-	-	-	-	-	-	-	-
Vegetables.....	*	*	*	-	-	-	19	1
Lettuce.....	-	-	-	-	-	-	-	-
Head cabbage.....	*	*	*	-	-	-	-	-
Kale.....	-	-	-	-	-	-	-	-



Red peppers .....	-	-	-	-	-	-	-	-
Swiss chard .....	-	-	-	-	-	-	-	-
Others .....	-	-	-	-	-	-	-	-
Root Crops .....	151	5.65	*	*	*	-	-	-
Beet root .....	*	*	*	-	-	-	-	-
Carrot .....	-	-	-	-	-	-	-	-
Onions .....	*	*	*	*	*	-	-	-
Potatoes .....	-	-	-	-	-	-	-	-
Garlic .....	-	-	-	-	-	-	-	-
Taro ('Godere') ..	-	-	-	-	-	-	-	-
Sweet potatoes ..	*	*	*	-	-	-	-	-
Others .....	-	-	-	-	-	-	-	-
Fruit Crops .....	324	12.13	315	-	9	-	-	-
Avocado .....	-	-	-	-	-	-	-	-
Bananas .....	23	0.86	*	-	*	-	-	-
Guava (Zeytuna) ..	83	3.11	*	-	6	-	-	-
Lemons .....	*	*	*	-	-	-	-	-
Mangoes .....	-	-	-	-	6	-	-	-
Oranges .....	70	2.62	70	-	-	-	-	-
Papayas .....	*	*	*	-	-	-	-	-
Pineapples .....	-	-	-	-	-	-	-	-
Others .....	-	-	-	-	-	-	-	-
Stimulant Crops .....	-	-	-	-	-	-	-	-
Chat .....	-	-	-	-	-	-	-	-
Coffee .....	-	-	-	-	-	-	-	-
Other Permanent Crops	-	-	-	-	-	-	-	-

Summary Table VI.7 Quantity of Chemical Fertilizers Applied and Improved

Seeds Used by Zone and Season in Rural Areas, for Private Holdings

Item	Quantity in Quintals			
	Total	Shinele	Jijiga	Liben
<b>Chemical Fertilizers</b>				
Total	435	*	428	*
Percent	100	*	98.39	*
Meher	435	*	428	-
Belg	*	*	-	*
<b>Improved seeds</b>				
Total	485	3	348	*
Percent	100	0.62	71.75	*
Meher	384	3	348	33
Belg	*	-	-	*

The distribution of extension package program participants by educational status shows that 69.55% were illiterate, 22.75% have participated in informal education, 7.05% have completed grades 1 to 6. As a result of insignificant number of holders who have been exposed to extension packages as well as to education, the impact of education on the use of improved farm practices was not clearly exhibited by the census data. The data indicates that out of all holders who have used improved seeds, practiced irrigation, and applied fertilizers and pesticides, 54.17, 65.52, 69.40 and 52.87 percents were illiterate, respectively (For details, refer to Summary Table VI.8).

Furthermore, in each zone, the proportions of the total holders who have applied fertilizers were the highest as compared to other inputs and irrigation. Thus, fertilizers are the most important input and used by 14302 holders (82.53%), 2,179 holders (12.57%) and 848 holders(4.89%) in Jijiga, Shinele and Liben Zones, respectively. The second most widely used is irrigation scheme and practiced by 3,657 holders (40.76%), 3,418 holders (38.10%) and 1,895 holders(21.12%) in Jijiga, Liben and Shinele zones, respectively. For details, refer to Summary Table VI.9.

**SUMMARY TABLE VI.8: Holders Applying Agricultural Inputs and Participating in Extension Programs by Level of Education in Rural and Urban Areas, for Private Holdings**

Place of Residence/Season	Total		Educational Level of Holder									
			Illiterate		Literate, but no Formal Education		Grade 1 - 6		Grade 7 – 12		Above Grade 12	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
<b>All Crop Holders</b>												
Rural and Urban	91300	100	66327	72.65	19784	21.67	3592	3.93	1524	1.67	74	0.08
Rural	88015	100	64464	73.24	19074	21.67	3309	3.76	1114	1.27	*	*
Meher	83504	100	62041	74.30	17706	21.20	2861	3.43	869	1.04	*	*
Belg	16769	100	10642	63.46	4176	24.90	1358	8.10	564	3.36	*	*
Urban	3285	100	1863	56.71	710	21.61	283	8.61	411	12.51	20	0.61
<b>Improved Seeds</b>												
Rural and Urban	2671	2.93	1447	54.17	977	36.58	199	7.45	*	*	*	*
Rural	2607	2.96	1406	53.93	970	37.21	194	7.44	*	*	*	*
Meher	2506	3.00	1375	54.87	916	36.55	178	7.10	*	*	*	*
Belg	133	0.79	*	*	*	*	*	*	*	*	*	*
Urban	64	1.95	41	64.06	8	12.50	*	*	11	17.19	*	*
<b>Irrigation</b>												
Rural and Urban	8971	9.83	5878	65.52	1939	21.61	846	9.43	297	3.31	11	0.12
Rural	8551	9.72	5708	66.75	1869	21.86	736	8.61	240	2.81	*	*
Meher	8290	9.93	5617	67.76	1770	21.35	682	8.23	220	2.65	*	*
Belg	1808	10.78	1210	66.92	317	17.53	254	14.05	*	*	*	*
Urban	420	12.79	170	40.48	71	16.90	110	26.19	58	13.81	11	2.62
<b>Fertilizer</b>												
Rural and Urban	17329	18.98	12026	69.40	4121	23.78	769	4.44	411	2.37	*	*
Rural	16821	19.11	11824	70.29	4006	23.82	672	4.00	320	1.90	*	*
Meher	15583	18.66	11062	70.99	3691	23.69	560	3.59	270	1.73	*	*
Belg	1697	10.12	963	56.75	483	28.46	182	10.72	*	*	*	*
Urban	508	15.46	202	39.76	115	22.64	97	19.09	91	17.91	*	*
<b>Pesticides</b>												
Rural and Urban	679	0.74	359	52.87	220	32.40	*	*	*	*	*	*
Rural	589	0.67	333	56.54	189	32.09	*	*	*	*	*	*
Meher	550	0.66	302	54.91	187	34.00	*	*	*	*	*	*
Belg	*	*	*	*	*	*	*	*	*	*	*	*
Urban	90	2.74	26	28.89	31	34.44	15	16.67	18	20.00	*	*

Extension Program												
Rural	1468	1.61	1021	69.55	334	22.75	104	7.08	*	*	*	*
Meher	1346	1.53	937	69.61	314	23.33	*	*	*	*	*	*
Belg	121	0.14	*	*	*	*	*	*	*	*	*	*

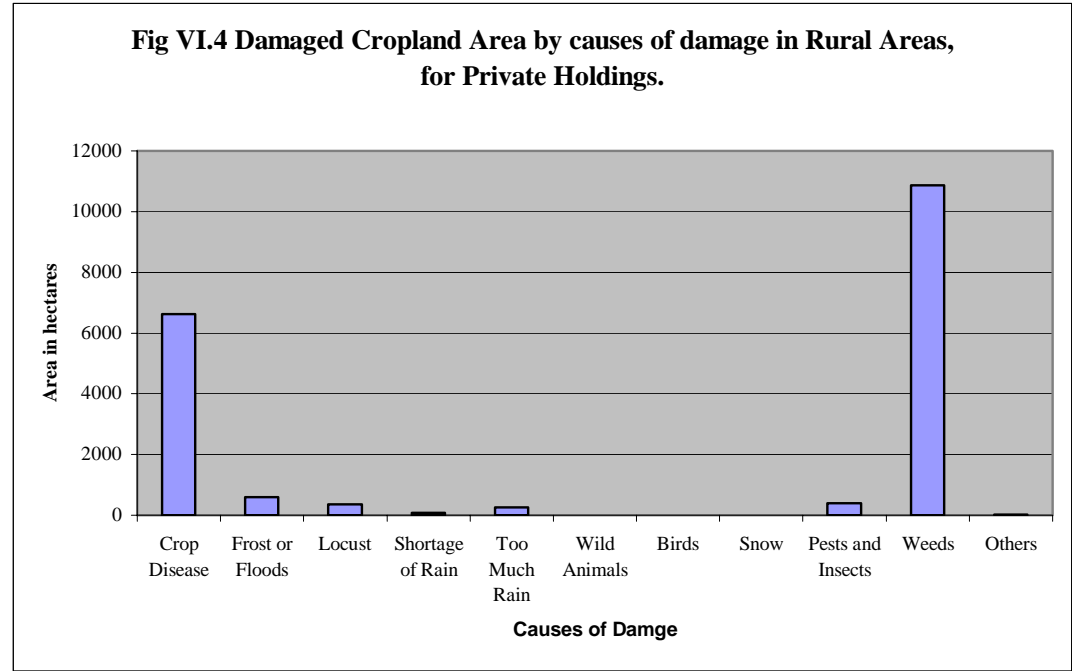
**SUMMARY TABLE VI.9: Holders Applying Agricultural Inputs and Practices in Rural and Urban Areas and Zones, for Private Holdings**

Data Items	Number of Holders							
	Total	Percent	Rural Meher	Rural Belg	Rural	Percent	Urban Meher	Percent
<b>Somali Region</b>								
Irrigation .....	8971	100	8290	1808	8551	100	420	100
Improved Seeds.....	2671	100	2506	133	2607	100	64	100
Pesticides.....	678	100	549	*	588	100	90	100
Fertilizers .....	17329	100	15582	1697	16821	100	508	100
<b>Shinee Zone</b>								
Irrigation .....	1895	21.12	1833	657	1850	21.63	45	10.71
Improved Seeds.....	167	6.25	152	-	152	5.83	15	23.44
Pesticides.....	32	4.72	30	-	30	5.10	*	*
Fertilizers .....	848	4.89	754	100	788	4.68	60	11.81
<b>Jijiga Zone</b>								
Irrigation .....	3657	40.76	3441	*	3511	41.06	147	35.00
Improved Seeds.....	1717	64.28	1679	-	1679	64.40	38	59.38
Pesticides.....	461	67.99	389	*	419	71.26	42	46.67
Fertilizers .....	14302	82.53	13434	*	13925	82.78	378	74.41
<b>Liben Zone</b>								
Irrigation .....	3418	38.10	3016	846	3190	37.31	228	54.29
Improved Seeds.....	787	29.46	675	133	776	29.77	11	17.19
Pesticides.....	185	27.29	131	*	139	23.64	46	51.11
Fertilizers .....	2179	12.57	1395	1036	2108	12.53	70	13.78

## 6 DAMAGED CROPLAND AREAS AND SIZE OF HOLDINGS IN RURAL AREAS

This section of the chapter deals with the estimates of damaged cropland areas by size of holdings in Somali Region. Cropland area damage includes any cropland planted or sown with intention to harvest crops, but failed to produce crop partly or fully due to various reasons. Out of the total cultivated cropland area, 27.77% in Meher and 4.43% in Belg seasons were affected by crop damage. The cropland area damage that accounted for 37.37% fall under holders in rural areas who had holding size that ranges from 1.01 and 2 hectares, followed by holders in rural areas who had holding size of between 2.01 and 5 hectares accounted for 25.38% of the cropland area damage and the holders in rural areas with holding size between 0.51 and 1 hectare

accounted for 24.53% of the total regional crop damage. With regard to the causes of crop damage, it is reported that 1.29% was damaged due to too much rain, locust caused 1.84% of the total crop damage, 34.31% was due to crop disease, 56.25% was due to weeds (For details see Summary Table VI.10 and Fig VI.4).



## 7 FARM MANAGEMENT PRACTICES OF HOLDERS IN RURAL AREAS

In order to obtain more detailed information concerning the various types of farm practices of holders in rural areas, data were collected subjectively by interviewing sampled agricultural holders on the sources of water for irrigation schemes, method to improve soil fertility, method of ploughing and soil conservation, participation in extension package programs, and use of credit or advisory services. Hence, the total number of holders reporting different farm management practices and their percentage distribution by type of farm management practices is presented in Summary Table VI.11. Following are discussions of the major findings with respect to these data.

SUMMARY TABLE VI.10: Causes of Damage of Cropland Area by Size of Holdings and

## Seasons in Rural Areas, for Private Holdings

Cause of Damage	Size of Holding (Hectares)							
	Total	Under 0.1	0.1 – 0.5	0.51 – 1.0	1.01 – 2.0	2.01 – 5.00	5.01 – 10.0	Over 10
	Both Seasons							
Total .....	19308	46	1899	4736	7216	4901	460	*
Percent.,	100	0.24	9.84	24.53	37.37	25.38	2.38	*
Crop Disease .....	6624	*	471	1490	2570	1885	*	-
Percent.,	34.31	*	7.11	22.49	38.80	28.46	*	-
Frost or Floods .....	604	4	83	181	226	*	*	-
Percent.,	3.13	0.66	13.74	29.97	37.42	*	*	-
Locust .....	356	*	74	105	162	*	-	-
Percent.,	1.84	*	0.38	0.54	0.84	*	-	-
Shortage of Rain .....	86	*	*	40	17	*	-	-
Percent.,	0.45	*	*	0.21	0.09	*	-	-
Too Much Rain .....	249	*	45	54	*	*	-	-
Percent.,	1.29	*	18.07	21.69	*	*	-	-
Wild Animals .....	*	-	-	*	*	*	-	-
Percent.,	*	-	-	*	*	*	-	-
Birds .....	-	-	-	-	-	-	-	-
Percent.,	-	-	-	-	-	-	-	-
Hailstone .....	*	-	*	*	*	*	-	-
Percent.,	*	-	*	*	*	*	-	-
Pests and Insects .....	405	*	*	*	*	*	-	-
Percent.,	2.10	*	*	*	*	*	-	-
Weeds .....	10860	20	1188	2753	3924	2684	*	*
Percent.,	56.25	0.18	10.94	25.35	36.13	24.71	*	*
Others .....	21	*	1	6	*	*	-	-
Percent.,	0.11	*	4.76	28.57	*	*	-	-
Meher Season								
Total	18953	25	1822	4625	7128	4846	457	*
Crop Disease .....	6443	3	435	1419	2529	1868	*	-
Frost or Floods .....	552	*	73	172	216	*	*	-
Locust .....	339	*	72	100	158	*	-	-
Shortage of Rain .....	60	-	*	33	*	*	-	-
Too Much Rain .....	243	*	45	52	*	*	-	-
Wild Animals .....	*	-	-	*	*	*	-	-
Birds .....	-	-	-	-	-	-	-	-
Hailstone .....	*	-	*	*	*	*	-	-
Pests and Insects .....	404	*	*	*	*	*	-	-
Weeds .....	10798	18	1162	2738	3907	2682	*	*
Others .....	*	-	-	*	*	*	-	-
Belg Season								
Total	355	17	151	97	76	*	-	-
Crop Disease .....	181	9	98	39	36	-	-	-
Frost or Floods .....	51	2	16	*	*	*	-	-
Locust .....	17	*	6	*	*	-	-	-
Shortage of Rain .....	*	*	*	*	*	*	-	-
Percent.,	6	*	2	*	-	-	-	-
Wild Animals .....	-	-	-	-	-	-	-	-
Birds .....	-	-	-	-	-	-	-	-
Hailstone .....	-	-	-	-	-	-	-	-
Pests and Insects .....	*	-	*	-	-	-	-	-
Weeds .....	62	*	25	26	*	-	-	-
Others .....	12	*	1	4	*	*	-	-

## 7.1 Sources of Water for Irrigation Schemes

In a country like Ethiopia, where the amount, timing and distribution of rainfall is irregular, use of irrigation would significantly improve and raise the level of crop production. However, irrigation is not extensive in Somali Region. The census data reveals that of the total holders in the rural areas of the region about 9.66% reported to have used irrigation practices.

Among those holders who practice this scheme sources of water for 78.55% percent and 5.35 percent of the holders were rivers and lakes, respectively. Utilization of other sources of water for irrigation is limited in the region. It should be noted that data on the number of holders who practice irrigation schemes and the number of holders reporting the sources of water for irrigation were collected in different period of time in the process of the 2001/02 agricultural activities. In an enumeration area a total of 30 households were systematically sampled that mainly resulted a bout 30 holders. Thus, the data on number of holders practicing irrigation was collected in September 2001 (for ten households) and in December 2001 (for twenty households). However, the data on the holders reporting the sources of water for irrigation was collected only in March. Hence, some discrepancy is observed in the total numbers of holders who have reported the use of irrigation practices presented in Summary Table VI.8 and VI.11.

During the 2001/02 EASE, an attempt has also been made to asses the extent of irrigation practice in urban areas. Thus, sources of water for irrigation in urban areas for Meher season have been assessed and the data are presented in Summary Table VI.12. The data in the table shows that only 12.79% of the total holders reported for practicing irrigation during Meher season. Of these holders the source of water for irrigation were 7.34%, 0.40%, 0.21% and 2.89% from rivers, lake, well and tap water, respectively (See Summary Table V1.12).

However, in the same summary table, out of the total holders, it is reported that about 455 holders (44.29 percent) in urban areas have practiced Belg crop production in the past three years prior to 2001/02 (1994 E.C.).

## **7.2 Methods Used to Improve Soil Fertility**

The fertility of the soil in Ethiopia is being depleted slowly as time passes because of continuous cropping. In the census, holders were asked to state their method of improving soil fertility, that is whether they use crop rotation or burning of soil. Hence, the data showed that of the total



holders about 50.45% have reported practicing crop rotation, while 4.64% reported practicing burning of soil as their main method for improving soil fertility.

### **7.3 Application of Chemical Fertilizers and Reasons for not Applying Fertilizers**

In section 3 of this chapter, it was indicated that about 18.98% of the holders have applied both natural and chemical fertilizers. However, it was less than 1.69% of the total holders that applied chemical fertilizers. In order to gauge the attitude of holders who did not use chemical fertilizers, sampled households were asked the reasons for not using chemical fertilizers. The data in Summary Table VI.11, indicate that the majority of the holders did not use chemical fertilizers due to various reasons. A total of about 34,203 holders, which is the highest proportion, did not use chemical fertilizers due to shortage of money, about 32,818 holders due to insufficient supply of fertilizers in their area, about 10,247 holders due to lack of knowledge regarding the advantage, about 1,154 holders due to the high cost of fertilizer, 32 holders reported suspecting the efficiency of the fertilizers and about 2,333 holders mentioned “other reasons” for not using chemical fertilizers.

### **7.4 Method of Ploughing**

One aspect to increase agricultural production is through mechanization. The replacement of hand digging and ox/horse driven ploughing method by tractor is of paramount importance for increasing the volume of agricultural production. In light of this, an attempt has been made to collect some basic information on method of ploughing by the holders at the time of the census enumeration. Thus, the majority of the holders (46.92%) reported to have used hand digging and ox/horse driven method and 30.91% of the holders that used ox/horse driven ploughing methods. Besides, holders who used hand-digging method are accounted for about 12.88%. On the other hand, only 3.52% of the total holders have used tractors for ploughing. This ascertained the fact that the use of a tractor for ploughing among the holders in the rural areas of the region is not common.

### **7.5 Methods Used for Soil Conservation**

According to the data in Summary Table VI.11, the majority of the holders reported using different methods of soil conservation. Of which, 16.71, 12.91 and 14.65 percent of holders have

practiced ploughing along the contour, water catchments and terracing, respectively. Moreover, only 0.21% of the total holders reported that they have other methods for soil conservation.

## **7.6 Extension Packages, and Use of Agricultural Credit and Advisory Services**

Extension packages are outreach programs operating in rural areas for private holdings aiming to transfer modern agricultural technologies to increase crop and livestock productivity. The programs are usually undertaken through close follow-up and advisory services by the agricultural development agents. A holder is said to be a participant of this program if and only if he/she obtains agricultural advices, apply the recommended inputs and other related services such as close follow up by the extension agent, supervision by wereda and zonal agricultural bureaus...etc on a regular basis. The prevalence of different types of extension packages were assessed during the Agricultural Sample Enumeration. These include, rain shortage area packages, rain abundant area packages, post harvest technology packages, ...etc. Thus, the data showed that only very few agricultural holders were covered by rain shortage and economically important crop extension package. In response to why they have not been covered by these extension packages from the inception of the program, holders reported the reasons as follows: 9.56% of the holders reported no knowledge about the advantage, 12.69% reported shortage of money, 71.95% reported program not available, 0.72% were suspicious of its efficiency and 1.06% reported other reasons.

In the country, there are institutions that provide credit and assist peasants by furnishing short and intermediate term loans for the purchase of chemical fertilizers, improved variety seeds, and pesticides. These institutions not only give great emphasis to making loans to peasants but also aiding them with advice on farming practices. Then, data are collected by interviewing sampled holders on use of credit and advisory services and are presented in Summary Table VI.11. Thus, the data in this table shows that very few holders used agricultural credit services and about 0.46 percent of the holders have obtained advice on agricultural practices. This indicates that the use of credit and advisory services were limited in the region.

## **7.7 SOURCES AND COST OF CHEMICAL FERTILIZERS.**

As illustrated in Summary Table VI.13, it is estimated that a total of 364 holders (0.41%) reported “Government” as their major sources of chemical fertilizers, while about 494 holders

(0.55%) private organization and about 556 holders (0.62%) traders as their major sources of chemical fertilizers. Regardless of the source, the average cost was 254.98 Birr/Quintal for DAP and 219.29 Birr/Quintal for UREA.

## 8 USES OF CROP SPECIFIC EXTENSION PACKAGE PROGRAMS

Extension package is one of the means by which productivity improves and thereby food production increases. Moreover, Agricultural Development Agents (ADA) assist the peasants by operating demonstration plots to provide information to agricultural holders on improved seed varieties, on use of fertilizers and pesticides, and improvements in production practices to increase yields. Further, advisory services are provided to holders to those who are willing to participate in the extension package programs.

SUMMARY TABLE VI.11: Number of Holders by Type of Farm Management Practices in Rural Areas, for Private Holdings

Farm Practices	Number of Holders Reporting	Percentage
<b>Total Crop Holders</b>	89267	100
Source of Water for Irrigation		
Holders who Practice Irrigation	8624	9.66
River .....	6774	78.55
Lake .....	461	5.35
Pond.....	*	*
Other .....	*	*
Method to Improve Soil Fertility		
Crop Rotation .....	45034	50.45
Burning of Soil .....	4141	4.64
Reason for Not Using Chemical Fertilizer		
Do Not Know Advantages .....	10247	
Too Expensive.....	1154	
Shortage of Money .....	34203	
Insufficient Supply .....	32818	
No Credit Service.....	*	
Suspicious of Efficacy .....	32	
Other .....	2333	
Method of Ploughing		
Hand Dug .....	11497	12.88
Ox/Horse Driven .....	27595	30.91
Tractor .....	3139	3.52
Hand Dug and Ox/Horse Driven .....	41885	46.92
Tractor and Ox/Horse Driven .....	3209	3.59
Method of Soil Conservation		
Terracing .....	13076	14.65
Water Catchments .....	11526	12.91
Afforestation .....	*	*
Ploughing Along the Contour .....	14918	16.71
Others .....	190	0.21

<b>All Holders .....</b>	100671	100
<b>Participation in Extension Package by Type</b>		
Rain Shortage Areas Package .....	*	*
Rain Abundant Areas Package .....	*	*
Post Harvest Technology Package.....	-	-
Livestock Development Package.....	-	-
Economically Important Crops Package .....	*	*
Any Two or More Packages .....	-	-
<b>Reason For Not Participating in Extension Packages</b>		
Do Not Know the Advantages.....	9625	9.56
Shortage of Money.....	12778	12.69
Suspicious of Efficacy .....	724	0.72
Programs Not Available.....	72433	71.95
Not Sufficient Arable Land.....	*	*
Others .....	1071	1.06
<b>Use of Credit or Advisory Services</b>		
Credit Services .....	*	*
Advisory Services .....	459	0.46

Summary Table VI.12 Holders who Practice Irrigation by Sources of  
Water in Meher Season and Holders who Practice Belg  
From 1999/2000 to 2001/02 in Urban Areas

Sources of Water	Number of Holders	Percent
<b>Those who Practice Irrigation in Meher Season (2001/02)</b>		
<b>Crop Holders.....</b>	3285	100.00
<b>Holders who Practice Irrigation Sources</b>	420	12.79
River.....	241	7.34
Lake.....	13	0.40
Well.....	7	0.21
Tap Water.....	95	2.89
Others.....	57	1.74
Not Stated.....	16	0.49
<b>Those who Practice Belg from 1999/2000 to 2001/02</b>		
<b>Crop Holders.....</b>	3285	100.00
<b>Holders who Practice Belg.....</b>	1455	44.29
Male.....	1111	33.82
Female.....	344	10.47

Summary Table VI.13: Holders by Sources of Chemical Fertilizers and Cost of Chemical Fertilizers in Rural Areas for Private Holdings.

Sources and Type of Fertilizers	Number of Holders	Percent
<b>Crop Holders.....</b>	89267	100.00
<b>Sources</b>		
Government.....	364	0.41
Private Organization	494	0.55
Traders.....	556	0.62
Others.....	*	*
Do not Buy.....	85427	95.70
Not Reported.....	2402	2.69
<b>Type of Fertilizers</b>	<b>Cost in Birr/Quintal</b>	
DAP.....	254.98	
UREA.....	219.29	

## 8.1 Holders Participating in Crop Specific Extension Package Programs

In rural areas of the Somali Region, data on the distributions of holders participating in crop specific extension package programs are presented in Summary Tables VI.14. Accordingly, about 1,468 holders have been participating in crop specific package. Accordingly, in this respect about 311, 945 and 747 holders considered wheat, maize and sorghum in crop specific extension, respectively.

## 8.2 Area Under Crop Specific Extension Package Programs

In the 2001/02 EASE, data on cropland area under extension package programs was collected. Thus, Summary Table VI.14 shows that a total of 558 hectares (0.71% ) of the total cropland area was under extension package programs. Out of the total cropland area under extension package programs, 39.25% was observed under maize, followed by sorghum (38.53%) and wheat (11.65%). As can be observed from the data in the table, most of this extension package programs were mainly practiced in Meher season (1,346 holders) and the participation of holders in these programs are very few i.e 121 holders in Belg season. For details, see Summary Table VI.14

Summary Table VI.14: Number of Holders Participating Crop Specific Extension Package Program and Area under Crop Specific Extension Package Program  
By Season in Rural Areas, for Private Holdings.

Ext. Package by Crop	Rural				Meher		Belg	
	Holder	%	Area	%	Holder	Area	Holder	Area
Total	1468	100.00	558	100.00	1346	473	121	*

Area in Hectares

Teff	-	-	-	-	-	-	-	-
Barley	*	*	*	*	*	*	-	-
Wheat	311	21.19	65	11.65	309	64	*	*
Maize	945	64.37	219	39.25	833	137	113	*
Sorghum	747	50.89	215	38.53	738	214	*	*
Rice	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
Haricot beans	*	*	*	*	*	*	*	*
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-
Tomatoes	*	*	*	*	*	*	-	-
Red Papper	-	-	-	-	-	-	-	-
Onion	*	*	*	*	*	*	-	-
Potatoes	*	*	*	*	*	*	-	-
Sweet potatoes	*	*	*	*	-	-	*	*
Enset	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-

TABLE 6.1: AREA OF CROPLAND UNDER IMPROVED FARM MANAGEMENT PRACTICES BY TYPE OF CROPS  
IN RURAL AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL .....	76271	921	1.21	2911	3.82	8012	10.5	156	0.2
Grain Crops .....	67278	836	1.24	1953	2.9	6575	9.77	116	0.17
Cereals .....	64407	786	1.22	1883	2.92	6424	9.97	111	0.17
Teff.....	*	-	-	-	-	-	-	-	-
Barley.....	6520	*	*	*	*	*	*	*	*
Wheat .....	8367	114	1.36	*	*	815	9.74	*	*
Maize .....	27676	398	1.44	1089	3.93	3107	11.23	46	0.17
Sorghum.....	21339	236	1.11	713	3.34	2184	10.23	*	*
Finger millet.....	*	-	-	-	-	*	*	-	-
Oats ('Aja').....	433	*	*	-	-	*	*	-	-
Rice .....	-	-	-	-	-	-	-	-	-
Pulses .....	1848	49	2.65	52	2.81	144	7.79	*	*
Horse beans.....	*	-	-	-	-	-	-	-	-
Field peas .....	86	*	*	-	-	*	*	-	-
Haricot beans .....	1179	43	3.65	52	4.41	135	11.45	*	*
Chick peas.....	407	*	*	*	*	*	*	-	-
Lentils .....	84	*	*	-	-	-	-	-	-
Vetch.....	*	-	-	-	-	-	-	-	-
Soya .....	*	-	-	-	-	-	-	-	-
Fenugreek .....	57	-	-	-	-	-	-	-	-
Gibto .....	-	-	-	-	-	-	-	-	-
Oil Seeds .....	497	*	*	*	*	*	*	-	-
Neug.....	*	-	-	*	*	-	-	-	-
Linseed.....	445	-	-	-	-	-	-	-	-
Ground nuts .....	*	*	*	-	-	*	*	-	-
Sufflower .....	-	-	-	-	-	-	-	-	-
Sesame .....	*	-	-	*	*	-	-	-	-
Rapeseed .....	-	-	-	-	-	-	-	-	-
Other Grains .....	526	-	-	*	*	*	*	-	-
Vegetables .....	105	*	*	47	44.76	39	37.14	-	-
Lettuce .....	*	-	-	-	-	*	*	-	-
Head cabbage.....	9	*	*	*	*	*	*	-	-
Kale.....	*	-	-	*	*	*	*	-	-
Tomatoes.....	67	*	*	33	49.25	*	*	-	-
Green peppers .....	13	-	-	*	*	*	*	-	-
Red peppers .....	*	-	-	-	-	-	-	-	-
Swiss chard .....	-	-	-	-	-	-	-	-	-
Others.....	*	-	-	-	-	*	*	-	-

Root Crops .....	830	*	*	122	14.7	58	6.99	*	*
Beet root.....	*	*	*	*	*	*	*	-	-
Carrot .....	-	-	-	-	-	-	-	-	-
Onions .....	330	*	*	38	11.52	27	8.18	*	*
Potatoes.....	47	-	-	*	*	12	25.53	-	-
Garlic .....	269	-	-	*	*	*	*	*	*
Taro ('Godere').....	-	-	-	-	-	-	-	-	-
Sweet potatoes .....	180	*	*	70	38.89	*	*	-	-
Others .....	-	-	-	-	-	-	-	-	-
Permanent Crops.....	8059	*	*	789	9.79	1339	16.61	*	*
Fruit Crops .....	423	*	*	389	91.96	112	26.48	*	*
Avocado .....	-	-	-	-	-	-	-	-	-
Bananas .....	189	*	*	183	96.83	27	14.29	-	-
Guava (Zeytuna) .....	*	*	*	*	*	*	*	*	*
Lemons .....	34	*	*	32	94.12	11	32.35	*	*
Mangoes.....	40	*	*	34	85	6	15	-	-
Oranges .....	55	*	*	54	98.18	19	34.55	*	*
Papayas .....	60	*	*	58	96.67	*	*	*	*
Pineapples .....	-	-	-	-	-	-	-	-	-
Others .....	*	-	-	5	*	*	*	-	-
Stimulant Crops .....	7624	-	-	398	5.22	1227	16.09	*	*
Chat.....	7596	-	-	376	4.95	1225	16.13	*	*
Coffee .....	*	-	-	*	*	*	*	-	-
Hops .....	*	-	-	-	-	-	-	-	-
Others .....	-	-	-	-	-	-	-	-	-
Other Permanent Crops .....	*	-	-	2	*	*	*	-	-
Enset.....	*	-	-	*	*	-	-	-	-
Sugar Cane .....	1	-	-	1	100	*	*	-	-
Others .....	*	-	-	*	*	-	-	-	-

TABLE 6.1.1: RURAL MEHER

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL .....	68257	892	1.31	2615	3.83	7311	10.71	152	0.22
Grain Crops .....	59404	810	1.36	1695	2.85	5885	9.91	112	0.19
Cereals .....	57041	765	1.34	1631	2.86	5778	10.13	108	0.19
Teff .....	*	-	-	-	-	-	-	-	-
Barley .....	6512	*	*	*	*	*	*	*	*
Wheat .....	8354	114	1.36	*	*	815	9.76	*	*
Maize .....	20847	381	1.83	854	4.1	2500	11.99	*	*
Sorghum .....	20824	233	1.12	697	3.35	2145	10.3	*	*
Finger millet .....	*	-	-	-	-	*	*	-	-
Oats ('Aja') .....	433	*	*	-	-	*	*	-	-
Rice .....	-	-	-	-	-	-	-	-	-
Pulses .....	1347	44	3.27	49	3.64	99	7.35	*	*
Horse beans .....	*	-	-	-	-	-	-	-	-
Field peas .....	86	*	*	-	-	*	*	-	-
Haricot beans .....	678	38	5.6	48	7.08	90	13.27	*	*
Chick peas .....	407	*	*	*	*	*	*	-	-
Lentils .....	84	*	*	-	-	-	-	-	-
Vetch .....	*	-	-	-	-	-	-	-	-
Soya .....	*	-	-	-	-	-	-	-	-
Fenugreek .....	57	-	-	-	-	-	-	-	-
Gibto .....	-	-	-	-	-	-	-	-	-
Oil Seeds .....	493	*	*	*	*	*	*	-	-
Neug .....	*	-	-	-	-	-	-	-	-
Linseed .....	445	-	-	-	-	-	-	-	-
Ground nuts .....	*	*	*	-	-	*	*	-	-
Sufflower .....	-	-	-	-	-	-	-	-	-
Sesame .....	*	-	-	*	*	-	-	-	-
Rapeseed .....	-	-	-	-	-	-	-	-	-
Other Grains .....	523	-	-	*	*	*	*	-	-
Vegetables .....	97	*	*	43	44.33	38	39.18	-	-
Lettuce .....	*	-	-	-	-	*	*	-	-
Head cabbage .....	*	*	*	*	*	*	*	-	-
Kale .....	*	-	-	*	*	*	*	-	-
Tomatoes .....	60	*	*	29	48.33	*	*	-	-
Green peppers .....	13	-	-	*	*	*	*	-	-
Red peppers .....	*	-	-	-	-	-	-	-	-
Swiss chard .....	-	-	-	-	-	-	-	-	-
Others .....	*	-	-	-	-	*	*	-	-
Root Crops .....	697	*	*	88	12.63	48	6.89	*	*
Beet root .....	*	*	*	*	*	*	*	-	-
Carrot .....	-	-	-	-	-	-	-	-	-
Onions .....	226	*	*	*	*	*	*	*	*
Potatoes .....	44	-	-	*	*	9	20.45	-	-
Garlic .....	269	-	-	*	*	*	*	*	*
Taro ('Godere') .....	-	-	-	-	-	-	-	-	-
Sweet potatoes .....	154	*	*	51	33.12	*	*	-	-
Others .....	-	-	-	-	-	-	-	-	-
Permanent Crops .....	8059	*	*	789	9.79	1339	16.61	*	*
Fruit Crops .....	423	*	*	389	91.96	112	26.48	*	*
Avocado .....	-	-	-	-	-	-	-	-	-
Bananas .....	189	*	*	183	96.83	27	14.29	-	-
Guava (Zeytuna) .....	*	*	*	*	*	*	*	*	*
Lemons .....	34	*	*	32	94.12	11	32.35	*	*
Mangoes .....	40	*	*	34	85	6	15	-	-
Oranges .....	55	*	*	54	98.18	19	34.55	*	*
Papayas .....	60	*	*	58	96.67	*	*	*	*
Pineapples .....	-	-	-	-	-	-	-	-	-
Others .....	*	-	-	5	*	*	*	-	-
Stimulant Crops .....	7624	-	-	398	5.22	1227	16.09	*	*
Chat .....	7596	-	-	376	4.95	1225	16.13	*	*
Coffee .....	*	-	-	*	*	*	*	-	-
Hops .....	*	-	-	-	-	-	-	-	-
Others .....	-	-	-	-	-	-	-	-	-
Other Permanent Crops .....	*	-	-	2	*	*	*	-	-
Enset .....	*	-	-	*	*	-	-	-	-
Sugar Cane .....	1	-	-	1	100	*	*	-	-
Others .....	*	-	-	*	*	-	-	-	-



TABLE 6.1.2: RURAL BELG

[illegible]

TABLE 6.2: AREA OF CROPLAND UNDER IMPROVED FARM MANAGEMENT PRACTICES BY TYPE OF CROPS IN URBAN AREAS, MEHER SEASON

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL .....	1834	79	4.31	189	10.31	309	16.85	117	6.38
Grain Crops.....	1750	74	4.23	160	9.14	277	15.83	112	6.4
Cereals .....	1684	73	4.33	119	7.07	239	14.19	88	5.23
Teff .....	3	-	-	-	-	2	66.67	-	-
Barley.....	120	*	*	4	3.33	16	13.33	1	0.83
Wheat.....	151	23	15.23	5	3.31	36	23.84	23	15.23
Maize .....	623	16	2.57	91	14.61	97	15.57	34	5.46
Sorghum .....	784	33	4.21	19	2.42	88	11.22	29	3.7
Finger millet .....	-	-	-	-	-	-	-	-	-
Oats ('Aja').....	4	-	-	-	-	-	-	-	-
Rice.....	-	-	-	-	-	-	-	-	-
Pulses .....	57	-	-	34	59.65	30	52.63	*	*
Horse beans .....	-	-	-	-	-	-	-	-	-
Field peas.....	3	-	-	-	-	1	33.33	-	-
Haricot beans.....	45	-	-	34	75.56	*	*	*	*
Chick peas .....	9	-	-	-	-	*	*	-	-
Lentils .....	-	-	-	-	-	-	-	-	-
Vetch.....	-	-	-	-	-	-	-	-	-
Soya .....	-	-	-	-	-	-	-	-	-
Fenugreek .....	-	-	-	-	-	-	-	-	-
Gibto .....	-	-	-	-	-	-	-	-	-
Oil Seeds .....	*	1	*	*	*	*	*	*	*
Neug.....	-	-	-	-	-	-	-	-	-
Linseed .....	*	-	-	-	-	-	-	-	-
Ground nuts .....	1	1	100	-	-	1	100	-	-
Sufflower .....	-	-	-	-	-	-	-	-	-
Sesame .....	*	-	-	*	*	*	*	*	*
Rapeseed.....	-	-	-	-	-	-	-	-	-
Other Grains .....	-	-	-	-	-	-	-	-	-
Vegetables .....	10	-	-	7	70	2	20	1	10
Lettuce .....	1	-	-	1	100	*	*	-	-
Head cabbage.....	-	-	-	-	-	-	-	-	-
Kale.....	*	-	-	-	-	*	*	-	-
Tomatoes .....	8	-	-	6	75	1	12.5	*	*
Green peppers.....	1	-	-	*	*	*	*	*	*
Red peppers .....	-	-	-	-	-	-	-	-	-
Swiss chard.....	*	-	-	*	*	-	-	-	-
Others.....	*	-	-	-	-	-	-	-	-
Root Crops.....	17	*	*	12	70.59	*	*	*	*
Beet root .....	-	-	-	-	-	-	-	-	-
Carrot.....	*	-	-	*	*	*	*	-	-
Onions.....	13	*	*	*	*	*	*	-	-
Potatoes.....	1	-	-	*	*	*	*	*	*
Garlic .....	1	-	-	*	*	-	-	-	-
Taro ('Godere') .....	-	-	-	-	-	-	-	-	-
Sweet potatoes .....	2	-	-	*	*	-	-	-	-
Others.....	-	-	-	-	-	-	-	-	-
Permanent Crops .....	57	*	*	11	19.3	23	40.35	5	8.77
Fruit Crops.....	15	*	*	5	33.33	4	26.67	*	*
Avocado.....	-	-	-	-	-	-	-	-	-
Bananas.....	2	*	*	2	100	*	*	*	*
Guava (Zeytuna).....	9	*	*	1	11.11	*	*	*	*
Lemons .....	1	-	-	*	*	*	*	*	*
Mangoes .....	2	*	*	2	100	*	*	*	*
Oranges.....	-	-	-	-	-	-	-	-	-
Papayas .....	1	-	-	*	*	*	*	*	*
Pineapples.....	-	-	-	-	-	-	-	-	-
Others.....	*	-	-	*	*	*	*	-	-
Stimulant Crops .....	42	-	-	5	11.9	20	47.62	2	4.76
Chat.....	40	-	-	3	7.5	18	45	2	5
Coffee .....	2	-	-	2	100	1	50	-	-
Hops .....	-	-	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-	-
Other Permanent Crops .....	1	-	-	-	-	-	-	-	-
Enset .....	1	-	-	-	-	-	-	-	-
Sugar Cane.....	-	-	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-	-

TABLE 6:3 AREA OF CROPLAND UNDER IMPROVED FARM MANAGEMENT PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	All Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	78105	1000	1.28	3101	3.97	8321	10.65	273	0.35
Shinele Zone	1335	40	3	923	69.14	231	17.3	15	1.12
Shinele	245	5	2.04	75	30.61	25	10.2	*	*
Erer	1089	34	3.12	849	77.96	206	18.92	13	1.19
Jijiga Zone	67294	671	1	962	1.43	7131	10.6	179	0.27
Jijiga	32617	364	1.12	906	2.78	4149	12.72	116	0.36
Teferi Ber	18421	*	*	*	*	785	4.26	11	0.06
Kebri Beyah	16256	153	0.94	*	*	2197	13.52	*	*
Liben Zone	9476	289	3.05	1216	12.83	960	10.13	80	0.84
Filtu	2990	204	6.82	*	*	269	9	*	*
Dolo Odo	2953	66	2.24	1194	40.43	172	5.82	72	2.44
Moyale	3533	*	*	*	*	519	14.69	*	*

TABLE 6.3.1:RURAL HOLDINGS

Geographic Area	All Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	76271	921	1.21	2911	3.82	8012	10.5	156	0.2
Shinele Zone	1264	34	2.69	910	71.99	221	17.48	13	1.03
Shinele	175	-	-	*	*	15	8.57	-	-
Erer	1089	34	3.12	849	77.96	206	18.92	13	1.19
Jijiga Zone	65745	612	0.93	938	1.43	6919	10.52	120	0.18
Jijiga	32133	314	0.98	885	2.75	4030	12.54	63	0.2
Teferi Ber	17666	*	*	*	*	*	*	*	*
Kebri Beyah	15946	152	0.95	*	*	2194	13.76	*	*
Liben Zone	9261	275	2.97	1063	11.48	871	9.41	*	*
Filtu	2990	204	6.82	*	*	269	9	*	*
Dolo Odo	2739	52	1.9	1041	38.01	84	3.07	*	*
Moyale	3533	*	*	*	*	519	14.69	*	*

TABLE 6.3.2 RURAL MEHER

Geographic Area	All Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	68257	892	1.31	2615	3.83	7311	10.71	152	0.22
Shinele Zone	1140	34	2.98	801	70.26	210	18.42	13	1.14
Shinele	163	-	-	*	*	15	9.2	-	-
Erer	977	34	3.48	751	76.87	196	20.06	13	1.33
Jijiga Zone	63361	612	0.97	885	1.4	6795	10.72	117	0.18
Jijiga	31486	314	1	831	2.64	3992	12.68	63	0.2
Teferi Ber	17291	*	*	*	*	*	*	*	*
Kebri Beyah	14584	152	1.04	*	*	2194	15.04	*	*
Liben Zone	3755	246	6.55	929	24.74	305	8.12	*	*
Filtu	1606	198	12.33	*	*	*	*	*	*
Dolo Odo	1245	44	3.53	922	74.06	72	5.78	*	*
Moyale	903	*	*	1	0.11	163	18.05	*	*

TABLE 6.3.3 RURAL BELG

Geographic Level	All Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	8015	29	0.36	296	3.69	701	8.75	*	*
Shinele Zone	124	-	-	109	87.9	11	8.87	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	112	-	-	98	87.5	11	9.82	-	-

Jijiga Zone	2384	-	-	*	*	*	*	*	*
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	375	-	-	-	-	*	*	*	*
Kebri Beyah	1363	-	-	-	-	-	-	-	-
Liben Zone	5507	29	0.53	134	2.43	566	10.28	*	*
Filtu	1383	*	*	-	-	*	*	*	*
Dolo Odo	1494	*	*	119	7.97	*	*	-	-
Moyale	2630	*	*	*	*	357	13.57	*	*

TABLE 6.3.4 URBAN HOLDING

Geographic Area	All Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	1834	79	4.31	189	10.31	309	16.85	117	6.38
Shinele Zone	70	5	7.14	13	18.57	10	14.29	*	*
Shinele	70	5	7.14	13	18.57	10	14.29	*	*
Jijiga Zone	1549	59	3.81	23	1.48	211	13.62	59	3.81
Jijiga	484	51	10.54	21	4.34	119	24.59	53	10.95
Teferi Ber	756	8	1.06	2	0.26	89	11.77	6	0.79
Kebri Beyah	310	*	*	*	*	*	*	-	-
Liben Zone	214	*	*	153	71.5	88	41.12	*	*
Filtu	*	-	-	-	-	-	-	*	*
Dolo Odo	214	*	*	153	71.5	88	41.12	*	*

TABLE 6.4 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Level	Grain Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	69027	910	1.32	2113	3.06	6852	9.93	228	0.33
Shinele Zone	977	30	3.07	590	60.39	150	15.35	13	1.33
Shinele	240	5	2.08	70	29.17	23	9.58	*	*
Erer	737	25	3.39	521	70.69	127	17.23	*	*
Jijiga Zone	58833	606	1.03	527	0.9	5783	9.83	139	0.24
Jijiga	27711	360	1.3	523	1.89	3081	11.12	109	0.39
Teferi Ber	17500	*	*	*	*	691	3.95	9	0.05
Kebri Beyah	13623	*	*	*	*	2011	14.76	*	*
Liben Zone	9216	274	2.97	996	10.81	920	9.98	76	0.82
Filtu	2990	204	6.82	*	*	269	9	*	*
Dolo Odo	2700	50	1.85	975	36.11	132	4.89	68	2.52
Moyale	3526	*	*	*	*	519	14.72	*	*

TABLE 6.4.1 RURAL HOLDING

Geographic Level	Grain Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	67278	836	1.24	1953	2.9	6575	9.77	116	0.17
Shinele Zone	909	25	2.75	579	63.7	141	15.51	*	*
Shinele	172	-	-	*	*	14	8.14	-	-
Erer	737	25	3.39	521	70.69	127	17.23	*	*
Jijiga Zone	57348	547	0.95	512	0.89	5593	9.75	84	0.15
Jijiga	27272	310	1.14	510	1.87	2980	10.93	*	*
Teferi Ber	16759	*	*	*	*	605	3.61	*	*
Kebri Beyah	13317	*	*	-	-	2008	15.08	*	*
Liben Zone	9021	264	2.93	862	9.56	841	9.32	*	*
Filtu	2990	204	6.82	*	*	269	9	*	*

Dolo Odo	2505	41	1.64	841	33.57	54	2.16	*	*
Moyale	3526	*	*	*	*	519	14.72	*	*

TABLE 6.4.2 RURAL MEHER

Geographic Area	Grain Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	59404	810	1.36	1695	2.85	5885	9.91	112	0.19
Shinele Zone	815	25	3.07	491	60.25	133	16.32	*	*
Shinele	160	-	-	*	*	14	8.75	-	-
Erer	655	25	3.82	444	67.79	119	18.17	*	*
Jijiga Zone	55037	547	0.99	467	0.85	5476	9.95	81	0.15
Jijiga	26698	310	1.16	464	1.74	2949	11.05	*	*
Teferi Ber	16384	*	*	*	*	*	*	*	*
Kebri Beyah	11954	*	*	-	-	2008	16.8	*	*
Liben Zone	3553	238	6.7	737	20.74	276	7.77	*	*
Filtu	1606	198	12.33	*	*	*	*	*	*
Dolo Odo	1049	*	*	730	69.59	44	4.19	*	*
Moyale	897	*	*	*	*	162	18.06	*	*

TABLE 6.4.3 RURAL BELG

Geographic Level	Grain Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	7874	26	0.33	258	3.28	690	8.76	*	*
Shinele Zone	94	-	-	88	93.62	9	9.57	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	83	-	-	76	91.57	9	10.84	-	-
Jijiga Zone	2311	-	-	*	*	*	*	*	*
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	375	-	-	-	-	*	*	*	*
Kebri Beyah	1363	-	-	-	-	-	-	-	-
Liben Zone	5468	26	0.48	125	2.29	565	10.33	*	*
Filtu	1383	*	*	-	-	*	*	*	*
Dolo Odo	1455	*	*	111	7.63	*	*	-	-
Moyale	2630	*	*	*	*	357	13.57	*	*

TABLE 6.4.4 URBAN HOLDING

Geographic Level	Grain Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	1750	74	4.23	160	9.14	277	15.83	112	6.4
Shinele Zone	68	5	7.35	11	16.18	9	13.24	*	*
Shinele	68	5	7.35	11	16.18	9	13.24	*	*
Jijiga Zone	1486	59	3.97	14	0.94	190	12.79	55	3.7
Jijiga	439	50	11.39	14	3.19	101	23.01	50	11.39
Teferi Ber	741	8	1.08	*	*	86	11.61	5	0.67
Kebri Beyah	306	*	*	*	*	*	*	-	-
Liben Zone	196	*	*	134	68.37	79	40.31	*	*
Filtu	*	-	-	-	-	-	-	*	*
Dolo Odo	195	*	*	134	68.72	79	40.51	*	*

TABLE 6.5 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN  
RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Level	Cereals								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali KIllil	66091	859	1.3	2002	3.03	6663	10.08	199	0.3
Shinele Zone	976	30	3.07	590	60.45	150	15.37	13	1.33
Shinele	240	5	2.08	70	29.17	23	9.58	*	*
Erer	736	25	3.4	520	70.65	127	17.26	*	*
Jijiga Zone	56914	597	1.05	526	0.92	5741	10.09	139	0.24
Jijiga	26589	351	1.32	523	1.97	3047	11.46	109	0.41
Teferi Ber	16817	*	*	*	*	691	4.11	9	0.05
Kebri Beyah	13508	*	*	*	*	2004	14.84	*	*
Liben Zone	8202	231	2.82	885	10.79	772	9.41	47	0.57
Filtu	2807	178	6.34	*	*	249	8.87	*	*
Dolo Odo	2489	40	1.61	865	34.75	92	3.7	42	1.69
Moyale	2906	*	*	*	*	431	14.83	*	*

TABLE 6.5.1 RURAL HOLDINGS

Geographic Level	Cereals								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali KIllil	64407	786	1.22	1883	2.92	6424	9.97	111	0.17
Shinele Zone	907	25	2.76	579	63.84	141	15.55	*	*
Shinele	172	-	-	*	*	14	8.14	-	-
Erer	736	25	3.4	520	70.65	127	17.26	*	*
Jijiga Zone	55451	539	0.97	512	0.92	5554	10.02	84	0.15
Jijiga	26153	302	1.15	510	1.95	2947	11.27	*	*
Teferi Ber	16087	*	*	*	*	605	3.76	*	*
Kebri Beyah	13211	*	*	-	-	2001	15.15	*	*
Liben Zone	8049	221	2.75	792	9.84	729	9.06	*	*
Filtu	2807	178	6.34	*	*	249	8.87	*	*
Dolo Odo	2336	*	*	772	33.05	*	*	*	*
Moyale	2906	*	*	*	*	431	14.83	*	*

TABLE 6.5.2 RURAL MEHER

Geographic Area	Cereals								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali KIllil	57041	765	1.34	1631	2.86	5778	10.13	108	0.19
Shinele Zone	813	25	3.08	491	60.39	133	16.36	*	*
Shinele	160	-	-	*	*	14	8.75	-	-
Erer	653	25	3.83	444	67.99	119	18.22	*	*
Jijiga Zone	53150	539	1.01	466	0.88	5437	10.23	81	0.15
Jijiga	25579	302	1.18	464	1.81	2916	11.4	*	*
Teferi Ber	15716	*	*	*	*	*	*	*	*
Kebri Beyah	11855	*	*	-	-	2001	16.88	*	*
Liben Zone	3078	201	6.53	674	21.9	209	6.79	*	*
Filtu	1510	172	11.39	*	*	*	*	*	*
Dolo Odo	980	*	*	667	68.06	*	*	*	*
Moyale	588	*	*	*	*	99	16.84	*	*

TABLE 6.5.2a Barley

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	6512	*	*	*	*	*	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	6508	*	*	*	*	*	*	*	*
Jijiga	4028	*	*	*	*	*	*	*	*
Teferi Ber	2282	*	*	-	-	*	*	-	-
Kebri Beyah	*	-	-	-	-	*	*	-	-
Liben Zone	*	*	*	-	-	-	-	-	-
Filtu	*	*	*	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.5.2b Wheat

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	8354	114	1.36	*	*	815	9.76	*	*
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	8354	114	1.36	*	*	815	9.76	*	*
Jijiga	5615	*	*	*	*	668	11.9	*	*
Teferi Ber	2033	*	*	-	-	*	*	-	-
Kebri Beyah	706	*	*	-	-	*	*	-	-
Liben Zone	*	*	*	-	-	-	-	-	-
Filtu	*	*	*	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.5.2c Maize

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	20847	381	1.83	854	4.1	2500	11.99	*	*
Shinele Zone	62	*	*	48	77.42	10	16.13	*	*
Shinele	*	-	-	*	*	*	*	-	-
Erer	56	*	*	48	85.71	9	16.07	*	*
Jijiga Zone	18043	185	1.03	*	*	2315	12.83	*	*
Jijiga	6247	94	1.5	*	*	958	15.34	*	*
Teferi Ber	4172	*	*	-	-	*	*	-	-
Kebri Beyah	7624	63	0.83	-	-	1177	15.44	*	*
Liben Zone	2742	195	7.11	627	22.87	175	6.38	*	*
Filtu	1351	166	12.29	*	*	*	*	*	*
Dolo Odo	820	*	*	622	75.85	*	*	*	*
Moyale	570	*	*	*	*	99	17.37	*	*

TABLE 6.5.2d Sorghum

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Kiliil	20824	233	1.12	697	3.35	2145	10.3	*	*
Shinele Zone	751	25	3.33	443	58.99	123	16.38	*	*
Shinele	154	-	-	*	*	14	9.09	-	-
Erer	597	25	4.19	396	66.33	109	18.26	*	*
Jijiga Zone	19741	206	1.04	*	*	1988	10.07	*	*
Jijiga	9276	*	*	*	*	1016	10.95	*	*
Teferi Ber	7139	*	*	*	*	*	*	*	*
Kebri Beyah	3326	*	*	-	-	699	21.02	*	*
Liben Zone	332	*	*	46	13.86	*	*	*	*
Filtu	155	*	*	*	*	-	-	-	-
Dolo Odo	160	*	*	45	28.13	*	*	*	*
Moyale	*	-	-	-	-	*	*	-	-

TABLE 6.5.2e Oats

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Kiliil	433	*	*	-	-	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	433	*	*	-	-	*	*	-	-
Jijiga	363	*	*	-	-	*	*	-	-
Teferi Ber	69	-	-	-	-	*	*	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.5.3 RURAL BELG

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Kiliil	7366	20	0.27	252	3.42	646	8.77	*	*
Shinele Zone	94	-	-	88	93.62	9	9.57	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	83	-	-	76	91.57	9	10.84	-	-
Jijiga Zone	2301	-	-	*	*	*	*	*	*
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	372	-	-	-	-	*	*	*	*
Kebri Beyah	1355	-	-	-	-	-	-	-	-
Liben Zone	4971	20	0.4	118	2.37	520	10.46	*	*
Filtu	1297	*	*	-	-	*	*	*	*
Dolo Odo	1356	*	*	105	7.74	*	*	-	-
Moyale	2318	*	*	*	*	331	14.28	-	-

TABLE 6.5.4 URBAN HOLDINGS



Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	1684	73	4.33	119	7.07	239	14.19	88	5.23
Shinele Zone	68	5	7.35	11	16.18	9	13.24	*	*
Shinele	68	5	7.35	11	16.18	9	13.24	*	*
Jijiga Zone	1463	58	3.96	14	0.96	187	12.78	55	3.76
Jijiga	437	49	11.21	14	3.2	99	22.65	50	11.44
Teferi Ber	729	8	1.1	*	*	85	11.66	5	0.69
Kebri Beyah	297	*	*	*	*	*	*	-	-
Liben Zone	153	*	*	93	60.78	43	28.1	31	20.26
Filtu	*	-	-	-	-	-	-	*	*
Dolo Odo	153	*	*	93	60.78	43	28.1	30	19.61

TABLE 6.6: AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	1905	49	2.57	87	4.57	174	9.13	*	*
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	919	*	*	*	*	34	3.7	-	-
Jijiga	635	*	*	-	-	26	4.09	-	-
Teferi Ber	170	-	-	*	*	*	*	-	-
Kebri Beyah	114	-	-	-	-	*	*	-	-
Liben Zone	986	42	4.26	86	8.72	141	14.3	*	*
Filtu	182	26	14.29	-	-	*	*	-	-
Dolo Odo	184	*	*	85	46.2	33	17.93	*	*
Moyale	620	*	*	*	*	88	14.19	*	*

TABLE 6.6.1 RURAL HOLDINGS

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	1848	49	2.65	52	2.81	144	7.79	*	*
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	897	*	*	*	*	32	3.57	-	-
Jijiga	634	*	*	-	-	*	*	-	-
Teferi Ber	158	-	-	*	*	-	-	-	-
Kebri Beyah	105	-	-	-	-	*	*	-	-
Liben Zone	950	42	4.42	52	5.47	112	11.79	*	*
Filtu	182	26	14.29	-	-	*	*	-	-
Dolo Odo	148	*	*	51	34.46	*	*	*	*
Moyale	620	*	*	*	*	88	14.19	*	*

TABLE 6.6.2 RURAL MEHER

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	1347	44	3.27	49	3.64	99	7.35	*	*
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	890	*	*	*	*	32	3.6	-	-

Jijiga	634	*	*	-	-	*	*	-	-
Teferi Ber	158	-	-	*	*	-	-	-	-
Kebri Beyah	98	-	-	-	-	*	*	-	-
Liben Zone	457	37	8.1	48	10.5	67	14.66	*	*
Filtu	96	26	27.08	-	-	*	*	-	-
Dolo Odo	52	*	*	48	92.31	*	*	*	*
Moyale	309	*	*	-	-	63	20.39	*	*

TABLE 6.6.2a Field Peas

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	86	*	*	-	-	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	*	-	-	-	-	*	*	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	13	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	*	*	-	-
Liben Zone	2	*	*	-	-	*	*	-	-
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	2	*	*	-	-	*	*	-	-

TABLE 6.6.2b Haricot beans

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	678	38	5.6	48	7.08	90	13.27	*	*
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	234	*	*	-	-	*	*	-	-
Jijiga	134	*	*	-	-	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	92	-	-	-	-	*	*	-	-
Liben Zone	445	32	7.19	48	10.79	67	15.06	*	*
Filtu	87	21	24.14	-	-	*	*	-	-
Dolo Odo	52	*	*	48	92.31	*	*	*	*
Moyale	306	*	*	-	-	62	20.26	*	*

TABLE 6.6.2c Chick peas

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	407	*	*	*	*	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	402	-	-	*	*	*	*	-	-
Jijiga	270	-	-	-	-	*	*	-	-
Teferi Ber	129	-	-	*	*	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	-	-	-	-	-	-
Filtu	*	*	*	-	-	-	-	-	-

Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

TABLE 6.6.2d Lintiles

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	84	*	*	-	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	80	-	-	-	-	-	-	-	-
Jijiga	80	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	-	-	-	-	-	-
Filtu	*	*	*	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.6.2e Fenugreek

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	57	-	-	-	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	57	-	-	-	-	-	-	-	-
Jijiga	54	-	-	-	-	-	-	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.6.3 RURAL BELG

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	501	*	*	*	*	45	8.98	*	*
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	*	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	493	*	*	*	*	45	9.13	*	*
Filtu	86	*	*	-	-	*	*	-	-
Dolo Odo	96	*	*	*	*	-	-	-	-
Moyale	311	*	*	*	*	*	*	*	*

TABLE 6.6.4 URBAN HOLDINGS

Geographic	Pulses				
	Total Crop	Improved Seed	Irrigated	Fertilizer	Pesticide

Level	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	57	-	-	34	59.65	30	52.63	*	*
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Jijiga Zone	21	-	-	-	-	2	9.52	-	-
Jijiga	1	-	-	-	-	1	100	-	-
Teferi Ber	12	-	-	-	-	*	*	-	-
Kebri Beyah	*	-	-	-	-	*	*	-	-
Liben Zone	36	-	-	34	94.44	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	36	-	-	34	94.44	*	*	*	*

TABLE 6.7: AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	Oil Seeds								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	505	*	*	*	*	*	*	*	*
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	480	*	*	-	-	*	*	-	-
Jijiga	467	*	*	-	-	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	*	*
Moyale	*	-	-	-	-	*	*	-	-

TABLE 6.7.1 RURAL HOLDINGS

Geographic Level	Oil Seeds								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	497	*	*	*	*	*	*	-	-
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	478	*	*	-	-	*	*	-	-
Jijiga	465	*	*	-	-	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	*	-	-	-	-	*	*	-	-

TABLE 6.7.2 RURAL MEHER

Geographic Area	Oil Seeds								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	493	*	*	*	*	*	*	-	-

Shinele Zone	*	-	-	-	-	-	-
Shinele	*	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-
Jijiga Zone	478	*	*	-	-	*	*
Jijiga	465	*	*	-	-	*	*
Teferi Ber	*	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*
Filtu	*	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-
Moyale	*	-	-	-	-	*	*

TABLE 6.7.2a Linseed

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	445	-	-	-	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	445	-	-	-	-	-	-	-	-
Jijiga	432	-	-	-	-	-	-	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.7.3 URBAN HOLDINGS

Geographic Level	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	*	1	*	*	*	*	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Jijiga Zone	2	1	50	-	-	1	50	-	-
Jijiga	2	1	50	-	-	1	50	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	*	*

TABLE 6.8 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	526	-	-	*	*	*	*	-	-
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	*	*	*	*	-	-
Jijiga Zone	522	-	-	-	-	-	-	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	501	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-

Moyale	-	-	-	-	-	-
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TABLE 6.8.1 RURAL HOLDINGS

Geographic Level	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	526	-	-	*	*	*	*	-	-
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	*	*	*	*	-	-
Jijiga Zone	522	-	-	-	-	-	-	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	501	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Movale	-	-	-	-	-	-	-	-	-

TABLE 6.8.2 RURAL MEHER

TABLE 6.3.2 RURAL MARKET									
Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	523	-	-	*	*	*	*	-	-
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	*	*	*	*	-	-
Jijiga Zone	519	-	-	-	-	-	-	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	498	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Movale	-	-	-	-	-	-	-	-	-

TABLE 6.9 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	115	*	*	54	46.96	41	35.65	1	0.87
Shinele Zone	18	*	*	15	83.33	6	33.33	-	-
Shinele	*	-	-	*	*	*	*	-	-
Erer	18	*	*	15	83.33	6	33.33	-	-
Jijiga Zone	64	*	*	*	*	*	*	*	*
Jijiga	29	*	*	6	20.69	*	*	-	-
Teferi Ber	3	-	-	*	*	*	*	*	*
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	32	-	-	26	81.25	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	26	*	*	*	*	*
Movale	*	-	-	*	*	-	-	-	-

TABLE 6.9.1 RURAL HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	105	*	*	47	44.76	39	37.14	-	-
Shinele Zone	18	*	*	15	83.33	6	33.33	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	18	*	*	15	83.33	6	33.33	-	-
Jijiga Zone	60	*	*	*	*	*	*	-	-
Jijiga	28	*	*	*	*	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	*	*	-	-	-	-

TABLE 6.9.2 RURAL MEHER

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	97	*	*	43	44.33	38	39.18	-	-
Shinele Zone	13	*	*	12	92.31	5	38.46	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	13	*	*	12	92.31	5	38.46	-	-
Jijiga Zone	60	*	*	*	*	*	*	-	-
Jijiga	28	*	*	*	*	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	*	*	-	-	-	-

TABLE 6.9.2a Tomatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	60	*	*	29	48.33	*	*	-	-
Shinele Zone	9	*	*	9 100.00	4	44.44	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	9	*	*	9 100.00	4	44.44	-	-	-
Jijiga Zone	*	*	*	*	*	*	*	-	-
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	-	-	*	*	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	*	*	-	-	-	-

TABLE 6.9.2b Green peppers

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%

Somali Killil	13	-	-	*	*	*	*	-	-
Shinele Zone	4	-	-	3	75	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	4	-	-	3	75	*	*	-	-
Jijiga Zone	*	-	-	*	*	*	*	-	-
Jijiga	*	-	-	-	-	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	*	*	*	*	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.9.3 RURAL BELG

Geographic Area	Vegetables								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	8	-	-	4	50	1	12.5	-	-
Shinele Zone	5	-	-	3	60	1	20	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	5	-	-	3	60	1	20	-	-
Jijiga Zone	-	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.9.4 URBAN HOLDINGS

Geographic Level	Vegetables								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	10	-	-	7	70	2	20	1	10
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	*	-	-	*	*	*	*	-	-
Jijiga Zone	4	-	-	2	50	1	25	*	*
Jijiga	1	-	-	1	100	*	*	-	-
Teferi Ber	1	-	-	*	*	*	*	*	*
Kebri Beyah	*	-	-	-	-	*	*	-	-
Liben Zone	5	-	-	5	100	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	5	-	-	5	100	*	*	*	*

TABLE 6.10. AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	Root Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Somali Killil	847	*	*	134	15.82	65	7.67	*	*
Shinele Zone	45	*	*	36	80	4	8.89	-	-
Shinele	*	-	-	*	*	*	*	-	-
Erer	44	*	*	35	79.55	3	6.82	-	-



TABLE 6.10.1 RURAL HOLDINGSTABLE 6.10.2 RURAL MEHERTABLE 6.10.2a Onion[illegible]

Moyale	-	-	-	-	-	-
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TABLE 6.10.2b Potatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	44	-	-	*	*	9	20.45	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	44	-	-	*	*	9	20.45	-	-
Jijiga	41	-	-	*	*	9	21.95	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.10.2c Garlic

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	269	-	-	*	*	*	*	*	*
Shinele Zone	*	-	-	*	*	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	*	*	-	-	-	-
Jijiga Zone	269	-	-	*	*	*	*	*	*
Jijiga	268	-	-	*	*	*	*	*	*
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.10.2d Sweet Potatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	154	*	*	51	33.12	*	*	-	-
Shinele Zone	19	*	*	16	84.21	2	10.53	-	-
Shinele	*	-	-	*	*	*	*	-	-
Erer	18	*	*	16	88.89	2	11.11	-	-
Jijiga Zone	*	-	-	*	*	*	*	-	-
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.10.3 RURAL BELG

	Root Crops
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Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	*	*	*	34	*	*	*	-	-
Shinele Zone	25	-	-	18	72	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	25	-	-	18	72	*	*	-	-
Jijiga Zone	*	-	-	*	*	*	*	-	-
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.10.4 URBAN HOLDINGS

Geographic Level	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	17	*	*	12	70.59	*	*	*	*
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	*	-	-	*	*	*	*	-	-
Jijiga Zone	6	-	-	1	16.67	*	*	*	*
Jijiga	3	-	-	*	*	*	*	-	-
Teferi Ber	1	-	-	1	100	*	*	*	*
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	-	-

TABLE 6.11 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, MEHER SEASON, FOR PRIVATE HOLDINGS

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	8116	*	*	800	9.86	1362	16.78	*	*
Shinele Zone	294	9	3.06	281	95.58	71	24.15	*	*
Shinele	*	-	-	*	*	*	*	-	-
Erer	290	9	3.1	278	95.86	70	24.14	*	*
Jijiga Zone	7670	*	*	373	4.86	1281	16.7	*	*
Jijiga	4172	*	*	327	7.84	1018	24.4	*	*
Teferi Ber	917	-	-	*	*	*	*	*	*
Kebri Beyah	2581	*	*	*	*	170	6.59	*	*
Liben Zone	*	*	*	*	*	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	*	*
Moyale	3	*	*	1	33.33	*	*	*	*

TABLE 6.11.1 RURAL MEHER

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	8059	*	*	789	9.79	1339	16.61	*	*
Shinele Zone	293	9	3.07	280	95.56	70	23.89	*	*
Shinele	*	-	-	*	*	*	*	-	-

Erer	290	9	3.1	278	95.86	70	24.14	*	*
Jijiga Zone	7617	*	*	366	4.81	1261	16.56	*	*
Jijiga	4132	-	-	321	7.77	1001	24.23	*	*
Teferi Ber	904	-	-	*	*	*	*	*	*
Kebri Beyah	2580	*	*	*	*	170	6.59	*	*
Liben Zone	*	*	*	*	*	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	-	-
Movale	3	*	*	1	33.33	*	*	*	*

Geographic Level	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	57	*	*	11	19.3	23	40.35	5	8.77
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	*	-	-	*	*	*	*	-	-
Jijiga Zone	53	*	*	7	13.21	20	37.74	3	5.66
Jijiga	39	*	*	6	15.38	17	43.59	2	5.13
Teferi Ber	13	-	-	*	*	3	23.08	*	*
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	3	*	*	3	100	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	3	*	*	3	100	*	*	*	*

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	438	*	*	394	89.95	116	26.48	4	0.91
Shinele Zone	208	9	4.33	199	95.67	56	26.92	*	*
Shinele	*	-	-	*	*	*	*	-	-
Erer	204	9	4.41	196	96.08	55	26.96	*	*
Jijiga Zone	*	*	*	*	*	*	*	*	*
Jijiga	31	*	*	*	*	*	*	-	-
Teferi Ber	*	-	-	*	*	*	*	*	*
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	*	*	*	*	*	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	*	*
Movale	3	*	*	1	33.33	*	*	*	*

[illegible]

TABLE 6.12.1a BananaTABLE 6.12.1b Guava(Zeytuna)TABLE 6.12.1c Lemon[illegible]

Moyale	*	-	-	-	-	-
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TABLE 6.12.1d Mango

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	40	*	*	34	85	6	15	-	-
Shinele Zone	18	-	-	17	94.44	*	*	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	18	-	-	17	94.44	*	*	-	-
Jijiga Zone	*	-	-	*	*	*	*	-	-
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	20	*	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	20	*	*	*	*	*	*	-	-
Moyale	*	-	-	*	*	*	*	-	-

TABLE 6.12.1e Orange

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	55	*	*	54	98.18	19	34.55	*	*
Shinele Zone	48	2	4.17	47	97.92	14	29.17	*	*
Shinele	*	-	-	*	*	*	*	-	-
Erer	47	2	4.26	46	97.87	14	29.79	*	*
Jijiga Zone	*	*	*	*	*	*	*	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.12.1f Papaya

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	60	*	*	58	96.67	*	*	*	*
Shinele Zone	5	-	-	5	100	3	60	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	5	-	-	5	100	3	60	-	-
Jijiga Zone	*	*	*	*	*	*	*	-	-
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	*	-	-	*	*	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	*	*	*	*	*	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	-	-
Moyale	1	*	*	*	*	*	*	*	*

TABLE 6.12.1i Other Fruits

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	*	-	-	5	*	*	*	-	-
Shinele Zone	5	-	-	5	100	2	40	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	5	-	-	5	100	2	40	-	-
Jijiga Zone	*	-	-	-	-	*	*	-	-
Jijiga	*	-	-	-	-	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.12.2 URBAN HOLDINGS

Geographic Level	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	15	*	*	5	33.33	4	26.67	*	*
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	*	-	-	*	*	*	*	-	-
Jijiga Zone	10	*	*	1	10	*	*	*	*
Jijiga	9	*	*	1	11.11	*	*	-	-
Teferi Ber	1	-	-	*	*	*	*	*	*
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	3	*	*	3	100	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	3	*	*	3	100	*	*	*	*

TABLE 6.13: AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, MEHER SEASON, FOR PRIVATE HOLDINGS

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	7665	-	-	403	5.26	1246	16.26	*	*
Shinele Zone	85	-	-	80	94.12	15	17.65	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	84	-	-	80	95.24	15	17.86	-	-
Jijiga Zone	7580	-	-	323	4.26	1231	16.24	*	*
Jijiga	4131	-	-	323	7.82	1010	24.45	*	*
Teferi Ber	910	-	-	-	-	*	*	*	*
Kebri Beyah	2539	-	-	-	-	*	*	*	*
Liben Zone	*	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.13.1: RURAL MEHER

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	7624	-	-	398	5.22	1227	16.09	*	*
Shinele Zone	85	-	-	80	94.12	15	17.65	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	84	-	-	80	95.24	15	17.86	-	-

Jijiga Zone	7539	-	-	318	4.22	1212	16.08	*	*
Jijiga	4102	-	-	318	7.75	993	24.21	*	*
Teferi Ber	898	-	-	-	-	*	*	*	*
Kebri Beyah	2539	-	-	-	-	*	*	*	*
Liben Zone	*	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Movale	*	-	-	-	-	-	-	-	-

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	7596	-	-	376	4.95	1225	16.13	*	*
Shinele Zone	81	-	-	76	93.83	13	16.05	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	80	-	-	76	95	13	16.25	-	-
Jijiga Zone	7516	-	-	299	3.98	1212	16.13	*	*
Jijiga	4080	-	-	299	7.33	993	24.34	*	*
Teferi Ber	897	-	-	-	-	*	*	*	*
Kebri Beyah	2539	-	-	-	-	*	*	*	*
Liben Zone	*	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Movale	*	-	-	-	-	-	-	-	-

[illegible][illegible]



Dolo Odo	-	-	-	-	-	-
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TABLE 6.14: AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, MEHER SEASON, FOR PRIVATE HOLDINGS

RURAL AND URBAN AREAS, MEYER SEASON, FOR PRIVATE HOLDINGS									
Geographic Area	Other permanent crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	*	-	-	2	*	*	*	-	-
Shinele Zone	2	-	-	2	100	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	2	-	-	2	100	*	*	-	-
Jijiga Zone	*	-	-	*	*	-	-	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	*	-	-	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Movale	*	-	-	-	-	-	-	-	-

TABLE 6.14.1 RURAL MEHER

TABLE 3.14.1 RURAL MENEN

Geographic Area	Other permanent crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Somali Killil	*	-	-	2	*	*	*	-	-
Shinele Zone	2	-	-	2	100	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	2	-	-	2	100	*	*	-	-
Jijiga Zone	*	-	-	*	*	-	-	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	*	-	-	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.14.1a Sugar cane

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
<b>Somali Killil</b>	1	-	-	1	100	*	*	-	-
Shinele Zone	1	-	-	1	100	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	1	-	-	1	100	*	*	-	-
Jijiga Zone	-	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	-	-	-	-	-	-

[illegible][illegible]

TABLE 6.15: NUMBER OF HOLDERS APPLYING FERTILIZERS, FERTILIZED AREA, AND QUANTITY OF FERTILIZERS BY CROP TYPE IN RURAL AREAS FOR BOTH SEASONS

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
	Holders	Hectares	Natural		Chemical – DAP		
			Holders	Hectares	Holders	Hectares	Quintals
TOTAL .....	16821	8012	15826	7422	422	134	33
Grain Crops .....	14665	6575	13875	6124	317	78	29
Cereals .....	14510	6424	13720	5981	317	77	29
Teff .....	-	-	-	-	-	-	-
Barley .....	1638	*	1568	*	*	*	*
Wheat .....	3047	815	2345	519	140	*	*
Maize .....	10750	3107	10390	3049	*	*	*
Sorghum .....	6278	2184	5916	2102	*	*	*
Finger millet .....	*	*	*	*	-	-	-
Oats ('Aja') .....	300	*	300	*	-	-	-
Rice .....	-	-	-	-	-	-	-
Pulses .....	1347	144	1296	136	*	*	-
Horse beans .....	-	-	-	-	-	-	-
Field peas .....	*	*	*	*	*	*	-
Haricot beans .....	1263	135	1231	128	-	-	-
Chick peas .....	*	*	*	*	-	-	-
Lentils .....	-	-	-	-	-	-	-
Vetch .....	-	-	-	-	-	-	-
Soya .....	-	-	-	-	-	-	-
Fenugreek .....	-	-	-	-	-	-	-
Gibto .....	-	-	-	-	-	-	-
Oil Seeds .....	*	*	*	*	-	-	-
Neug .....	-	-	-	-	-	-	-
Linseed .....	-	-	-	-	-	-	-
Ground nuts .....	*	*	*	*	-	-	-
Sufflower .....	-	-	-	-	-	-	-
Sesame .....	-	-	-	-	-	-	-
Rapeseed .....	-	-	-	-	-	-	-
Other Grains .....	*	*	*	*	-	-	-
Vegetables .....	650	39	537	36	*	*	*
Lettuce .....	*	*	*	*	-	-	-
Head cabbage .....	*	*	*	*	-	-	-
Kale .....	*	*	*	*	-	-	-
Tomatoes .....	396	*	313	*	*	*	*
Green peppers .....	120	*	120	*	-	-	-
Red peppers .....	-	-	-	-	-	-	-
Swiss chard .....	-	-	-	-	-	-	-
Others .....	*	*	*	*	-	-	-
Root Crops .....	1412	58	1202	50	*	*	*
Beet root .....	*	*	*	*	-	-	-
Carrot .....	-	-	-	-	-	-	-
Onions .....	533	27	489	26	-	-	-
Potatoes .....	578	12	475	9	*	*	*
Garlic .....	*	*	*	*	-	-	-
Taro ('Godere') .....	-	-	-	-	-	-	-
Sweet potatoes .....	*	*	85	5	*	*	*
Others .....	-	-	-	-	-	-	-
Permanent Crops .....	7740	1339	7281	1212	180	*	*
Fruit Crops .....	1049	112	977	69	*	*	-
Avocado .....	-	-	-	-	-	-	-
Bananas .....	257	27	257	27	-	-	-
Guava (Zeytuna) .....	164	*	139	*	*	*	-
Lemons .....	223	11	223	11	-	-	-
Mangoes .....	291	6	291	6	-	-	-
Oranges .....	260	19	234	14	*	*	-
Papayas .....	348	*	322	3	*	*	-
Pineapples .....	-	-	-	-	-	-	-
Others .....	144	*	98	2	*	*	-
Stimulant Crops .....	7051	1227	6617	1143	155	23	*
Chat .....	7014	1225	6580	1142	155	23	*
Coffee .....	*	*	*	*	-	-	-
Hops .....	-	-	-	-	-	-	-
Others .....	-	-	-	-	-	-	-
Other Permanent Crops .....	*	*	*	*	-	-	-
Enset .....	-	-	-	-	-	-	-
Sugar Cane .....	*	*	*	*	-	-	-
Others .....	-	-	-	-	-	-	-

TABLE 6.15 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holders	Hectares	Quintals	Holders	Hectares	Quintals
TOTAL .....	426	167	*	717	289	350
Grain Crops .....	310	121	*	628	253	344
Cereals .....	310	121	*	628	245	344
Teff.....	-	-	-	-	-	-
Barley.....	-	-	-	*	*	-
Wheat.....	149	*	*	414	182	303
Maize .....	*	*	*	*	*	*
Sorghum.....	*	*	*	*	*	*
Finger millet.....	-	-	-	-	-	-
Oats ('Aja').....	-	-	-	-	-	-
Rice .....	-	-	-	-	-	-
Pulses .....	-	-	-	*	*	-
Horse beans.....	-	-	-	-	-	-
Field peas .....	-	-	-	-	-	-
Haricot beans .....	-	-	-	*	*	-
Chick peas.....	-	-	-	-	-	-
Lentils .....	-	-	-	-	-	-
Vetch.....	-	-	-	-	-	-
Soya .....	-	-	-	-	-	-
Fenugreek .....	-	-	-	-	-	-
Gibto .....	-	-	-	-	-	-
Oil Seeds .....	-	-	-	-	-	-
Neug.....	-	-	-	-	-	-
Linseed.....	-	-	-	-	-	-
Ground nuts .....	-	-	-	-	-	-
Sufflower .....	-	-	-	-	-	-
Sesame .....	-	-	-	-	-	-
Rapeseed .....	-	-	-	-	-	-
Other Grains .....	-	-	-	-	-	-
Vegetables .....	*	*	*	-	-	-
Lettuce .....	-	-	-	-	-	-
Head cabbage.....	*	*	*	-	-	-
Kale .....	-	-	-	-	-	-
Tomatoes.....	*	*	*	-	-	-
Green peppers .....	-	-	-	-	-	-
Red peppers .....	-	-	-	-	-	-
Swiss chard.....	-	-	-	-	-	-
Others.....	-	-	-	-	-	-
Root Crops .....	*	*	*	*	*	*
Beet root.....	*	*	*	-	-	-
Carrot .....	-	-	-	-	-	-
Onions.....	*	*	*	*	*	*
Potatoes.....	-	-	-	*	*	*
Garlic .....	-	-	-	-	-	-
Taro ('Godere').....	-	-	-	-	-	-
Sweet potatoes .....	-	-	-	-	-	-
Others.....	-	-	-	-	-	-
Permanent Crops.....	143	*	*	228	33	*
Fruit Crops .....	*	*	-	-	-	-
Avocado .....	-	-	-	-	-	-
Bananas.....	-	-	-	-	-	-
Guava (Zeytuna) .....	*	*	-	-	-	-
Lemons .....	-	-	-	-	-	-
Mangoes.....	-	-	-	-	-	-
Oranges .....	*	*	-	-	-	-
Papayas .....	*	*	-	-	-	-
Pineapples .....	-	-	-	-	-	-
Others.....	-	-	-	-	-	-
Stimulant Crops .....	*	*	*	228	33	*
Chat .....	*	*	*	228	33	*
Coffee .....	-	-	-	-	-	-
Hops .....	-	-	-	-	-	-
Others.....	-	-	-	-	-	-
Other Permanent Crops .....	-	-	-	-	-	-
Enset.....	-	-	-	-	-	-
Sugar Cane.....	-	-	-	-	-	-
Others.....	-	-	-	-	-	-

TABLE 6.15.1 RURAL MEHER

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity			
			Natural		Chemical – DAP	
	Holders	Hectares	Holders	Hectares	Holders	Quintals
TOTAL .....	410	164	*	706	288	350
Grain Crops .....	306	118	*	628	253	344

Cereals	306	118	*	628	245	344	306
Teff	-	-	-	-	-	-	-
Barley.....	-	-	-	*	*	-	-
Wheat.....	149	*	*	414	182	303	149
Maize.....	*	*	*	*	*	*	*
Sorghum.....	*	*	*	*	*	*	*
Finger millet.....	-	-	-	-	-	-	-
Oats ('Aja').....	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses.....	-	-	-	*	*	-	-
Horse beans.....	-	-	-	-	-	-	-
Field peas.....	-	-	-	-	-	-	-
Haricot beans.....	-	-	-	*	*	-	-
Chick peas.....	-	-	-	-	-	-	-
Lentils.....	-	-	-	-	-	-	-
Vetch.....	-	-	-	-	-	-	-
Soya.....	-	-	-	-	-	-	-
Fenugreek.....	-	-	-	-	-	-	-
Gibto.....	-	-	-	-	-	-	-
Oil Seeds.....	-	-	-	-	-	-	-
Neug.....	-	-	-	-	-	-	-
Linseed.....	-	-	-	-	-	-	-
Ground nuts.....	-	-	-	-	-	-	-
Sufflower.....	-	-	-	-	-	-	-
Sesame.....	-	-	-	-	-	-	-
Rapeseed.....	-	-	-	-	-	-	-
Other Grains.....	-	-	-	-	-	-	-
Vegetables.....	*	*	*	-	-	-	*
Lettuce.....	-	-	-	-	-	-	-
Head cabbage.....	*	*	*	-	-	-	*
Kale.....	-	-	-	-	-	-	-
Tomatoes.....	-	-	-	-	-	-	-
Green peppers.....	-	-	-	-	-	-	-
Red peppers.....	-	-	-	-	-	-	-
Swiss chard.....	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-
Root Crops.....	*	*	*	*	*	*	*
Beet root.....	*	*	*	-	-	-	*
Carrot.....	-	-	-	-	-	-	-
Onions.....	*	*	*	-	-	-	*
Potatoes.....	-	-	-	*	*	*	-
Garlic.....	-	-	-	-	-	-	-
Taro ('Godere').....	-	-	-	-	-	-	-
Sweet potatoes.....	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-
Permanent Crops.....	143	*	*	228	33	*	143
Fruit Crops.....	*	*	-	-	-	-	*
Avocado.....	-	-	-	-	-	-	-
Bananas.....	-	-	-	-	-	-	-
Guava (Zeytuna).....	*	*	-	-	-	-	*
Lemons.....	-	-	-	-	-	-	-
Mangoes.....	-	-	-	-	-	-	-
Oranges.....	*	*	-	-	-	-	*
Papayas.....	*	*	-	-	-	-	*
Pineapples.....	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-
Stimulant Crops.....	*	*	*	228	33	*	*
Chat.....	*	*	*	228	33	*	*
Coffee.....	-	-	-	-	-	-	-
Hops.....	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-
Other Permanent Crops.....	-	-	-	-	-	-	-
Enset.....	-	-	-	-	-	-	-
Sugar Cane.....	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-

TABLE 6.15 .1 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holders	Hectares	Quintals	Holders	Hectares	Quintals
TOTAL .....	754	210	721	205	*	*
Grain Crops .....	568	133	536	127	*	*
Cereals .....	568	133	536	127	*	*
Teff.....	-	-	-	-	-	-
Barley .....	-	-	-	-	-	-
Wheat .....	-	-	-	-	-	-
Maize.....	237	10	225	9	-	-
Sorghum .....	527	123	507	118	*	*
Finger millet.....	-	-	-	-	-	-
Oats ('Aja') .....	-	-	-	-	-	-
Rice .....	-	-	-	-	-	-
Pulses .....	-	-	-	-	-	-
Horse beans.....	-	-	-	-	-	-
Field peas .....	-	-	-	-	-	-
Haricot beans .....	-	-	-	-	-	-
Chick peas .....	-	-	-	-	-	-
Lentils.....	-	-	-	-	-	-
Vetch .....	-	-	-	-	-	-
Soya.....	-	-	-	-	-	-
Fenugreek.....	-	-	-	-	-	-
Gibto.....	-	-	-	-	-	-
Oil Seeds .....	-	-	-	-	-	-
Neug .....	-	-	-	-	-	-
Linseed .....	-	-	-	-	-	-
Ground nuts.....	-	-	-	-	-	-
Sufflower.....	-	-	-	-	-	-
Sesame .....	-	-	-	-	-	-
Rapeseed .....	-	-	-	-	-	-
Other Grains .....	*	*	*	*	-	-
Vegetables .....	121	5	121	5	-	-
Lettuce.....	-	-	-	-	-	-
Head cabbage.....	-	-	-	-	-	-
Kale .....	*	*	*	*	-	-
Tomatoes.....	121	4	121	4	-	-
Green peppers .....	*	*	*	*	-	-
Red peppers.....	-	-	-	-	-	-
Swiss chard .....	-	-	-	-	-	-
Others .....	-	-	-	-	-	-
Root Crops .....	80	3	80	3	-	-
Beet root.....	-	-	-	-	-	-
Carrot .....	-	-	-	-	-	-
Onions .....	*	*	*	*	-	-
Potatoes .....	-	-	-	-	-	-
Garlic.....	-	-	-	-	-	-
Taro ('Godere') .....	-	-	-	-	-	-
Sweet potatoes .....	41	2	41	2	-	-
Others .....	-	-	-	-	-	-
Permanent Crops .....	457	70	457	70	-	-
Fruit Crops .....	403	55	403	55	-	-
Avocado .....	-	-	-	-	-	-
Bananas .....	206	22	206	22	-	-
Guava (Zeytuna) .....	40	1	40	1	-	-
Lemons.....	203	10	203	10	-	-
Mangoes .....	79	*	79	*	-	-
Oranges .....	234	14	234	14	-	-
Papayas .....	73	3	73	3	-	-
Pineapples .....	-	-	-	-	-	-
Others .....	98	2	98	2	-	-
Stimulant Crops .....	222	15	222	15	-	-
Chat .....	185	13	185	13	-	-
Coffee.....	*	*	*	*	-	-
Hops .....	-	-	-	-	-	-
Others .....	-	-	-	-	-	-
Other Permanent Crops.....	*	*	*	*	-	-
Enset.....	-	-	-	-	-	-
Sugar Cane .....	*	*	*	*	-	-
Others .....	-	-	-	-	-	-

TABLE 6.15.2 RURAL BELG

CROP	Application of Total Fertilizer		Application of Fertilizer by Type and Quantity				
			Natural		Chemical – DAP		
	Holders	Hectares	Holders	Hectares	Holders	Hectares	Quintals

TOTAL .....	1697	701	1669	698			
Grain Crops .....	1660	690	1655	688			
Cereals .....	1637	646	1633	643			
Teff .....	-	-	-	-			
Barley .....	-	-	-	-			
Wheat .....	-	-	-	-			
Maize .....	1612	608	1608	605			
Sorghum .....	*	*	*	*			
Finger millet .....	-	-	-	-			
Oats ('Aja') .....	-	-	-	-			
Rice .....	-	-	-	-			
Pulses .....	328	45	328	45			
Horse beans .....	-	-	-	-			
Field peas .....	-	-	-	-			
Haricot beans .....	328	45	328	45			
Chick peas .....	-	-	-	-			
Lentils .....	-	-	-	-			
Vetch .....	-	-	-	-			
Soya .....	-	-	-	-			
Fenugreek .....	-	-	-	-			
Gibto .....	-	-	-	-			
Oil Seeds .....	-	-	-	-			
Neug .....	-	-	-	-			
Linseed .....	-	-	-	-			
Ground nuts .....	-	-	-	-			
Sufflower .....	-	-	-	-			
Sesame .....	-	-	-	-			
Rapeseed .....	-	-	-	-			
Other Grains .....	-	-	-	-			
Vegetables .....	47	1	34	1			
Lettuce .....	-	-	-	-			
Head cabbage .....	-	-	-	-			
Kale .....	-	-	-	-			
Tomatoes .....	47	1	34	1			
Green peppers .....	-	-	-	-			
Red peppers .....	-	-	-	-			
Swiss chard .....	-	-	-	-			
Others .....	-	-	-	-			
Root Crops .....	*	*	*	*			
Beet root .....	-	-	-	-			
Carrot .....	-	-	-	-			
Onions .....	*	*	*	*			
Potatoes .....	*	*	*	*			
Garlic .....	-	-	-	-			
Taro ('Godere') .....	-	-	-	-			
Sweet potatoes .....	*	*	*	*			
Others .....	-	-	-	-			

TABLE 6.16: Number of Holders Applying Fertilizer, Fertilized Area, and Quantity of Fertilizers by Crop Type for Urban Areas in Meher Season, for Private Holdings

CROP	Application of Total Fertilizers		Application of Fertilizers by Type					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectares	Holders	Hectares	Holders	Hectares	Holders	Hectares
TOTAL .....	508	309	418	241	96	60	10	9
Grain Crops .....	408	277	325	217	90	51	10	9
Cereals .....	400	239	313	186	90	44	10	9
Teff .....	8	2	*	*	-	-	4	1
Barley .....	45	16	32	9	4	1	10	5
Wheat .....	68	36	47	31	17	5	4	1
Maize .....	248	97	194	67	50	28	4	2
Sorghum .....	256	88	220	79	36	10	-	-

Finger millet .....	-	-	-	-	-	-	-
Oats ('Aja') .....	-	-	-	-	-	-	-
Rice.....	-	-	-	-	-	-	-
Pulses	29	30	29	30	-	-	-
Horse beans .....	-	-	-	-	-	-	-
Field peas.....	11	1	11	1	-	-	-
Haricot beans.....	18	*	18	*	-	-	-
Chick peas .....	6	*	6	*	-	-	-
Lentils.....	-	-	-	-	-	-	-
Vetch .....	-	-	-	-	-	-	-
Soya.....	-	-	-	-	-	-	-
Fenugreek .....	-	-	-	-	-	-	-
Gibto.....	-	-	-	-	-	-	-
Oil Seeds	12	*	8	1	*	*	-
Neug .....	-	-	-	-	-	-	-
Linseed .....	-	-	-	-	-	-	-
Ground nuts.....	8	1	8	1	-	-	-
Sufflower .....	-	-	-	-	-	-	-
Sesame.....	*	*	-	-	*	*	-
Rapeseed.....	-	-	-	-	-	-	-
Other Grains.....	-	-	-	-	-	-	-
Vegetables .....	37	2	18	1	19	1	-
Lettuce.....	*	*	*	*	-	-	-
Head cabbage .....	-	-	-	-	-	-	-
Kale .....	*	*	*	*	-	-	-
Tomatoes .....	31	1	18	1	*	*	-
Green peppers.....	9	*	*	*	6	*	-
Red peppers.....	-	-	-	-	-	-	-
Swiss chard.....	-	-	-	-	-	-	-
Others .....	-	-	-	-	-	-	-
Root Crops.....	25	*	12	1	*	*	-
Beet root.....	-	-	-	-	-	-	-
Carrot.....	*	*	-	-	*	*	-
Onions .....	19	*	9	*	*	*	-
Potatoes .....	*	*	*	*	-	-	-
Garlic.....	-	-	-	-	-	-	-
Taro ('Godere') ..	-	-	-	-	-	-	-
Sweet potatoes...	-	-	-	-	-	-	-
Others .....	-	-	-	-	-	-	-
Permanent Crops .....	137	23	129	22	*	*	-
Fruit Crops.....	26	4	23	2	*	*	-
Avocado .....	-	-	-	-	-	-	-
Bananas .....	20	*	17	*	*	*	-
Guava (Zeytuna) ..	*	*	*	*	-	-	-
Lemons.....	*	*	*	*	-	-	-
Mangoes .....	14	*	14	*	-	-	-
Oranges.....	-	-	-	-	-	-	-
Papayas.....	*	*	*	*	-	-	-
Pineapples .....	-	-	-	-	-	-	-
Others .....	5	*	5	*	-	-	-
Stimulant Crops.....	105	20	101	19	*	*	-
Chat .....	105	18	101	18	*	*	-
Coffee .....	7	1	7	1	-	-	-
Hops .....	-	-	-	-	-	-	-
Others .....	-	-	-	-	-	-	-
Other Permanent Crops..	5	-	5	-	-	-	-
Enset.....	-	-	-	-	-	-	-
Sugar Cane .....	5	-	5	-	-	-	-
	-	-	-	-	-	-	-

TABLE 6.17: NUMBER OF HOLDERS APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

All Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	17329	8321	16244	7663	422	134	33
Shinele Zone	848	231	792	224	*	*	*
Shinele	138	25	128	24	-	-	-
Erer	710	206	665	201	*	*	*
Jijiga Zone	14302	7131	13318	6521	411	131	*
Jijiga	10176	4149	9388	3665	*	*	*
Teferi Ber	1463	785	1314	*	*	*	*
Kebri Beyah	2664	2197	2617	2142	*	*	-
Liben Zone	2179	960	2133	917	-	-	-
Filtu	281	269	277	266	-	-	-
Dolo Odo	389	172	348	132	-	-	-
Moyale	1509	519	1509	519	-	-	-



TABLE 6.17 Contd.

All Crops								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical - DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Somali Killil	426	167	*	717	289	350	106	69
Shinele Zone	*	*	*	*	*	-	11	*
Shinele	-	-	-	-	-	-	11	*
Erer	*	*	*	*	*	-	-	-
Jijiga Zone	401	162	*	693	287	350	66	29
Jijiga	306	116	*	675	286	350	45	23
Teferi Ber	*	*	*	*	*	-	18	4
Kebri Beyah	*	*	-	-	-	-	*	*
Liben Zone	*	*	*	*	*	*	30	*
Filtu	*	*	*	-	-	-	-	-
Dolo Odo	-	-	-	*	*	*	30	*
Moyale	-	-	-	-	-	-	-	-

TABLE 6.17.1: RURAL HOLDING

All Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	16821	8012	15826	7422	422	134	33
Shinele Zone	788	221	743	216	*	*	*
Shinele	78	15	78	15	-	-	-
Erer	710	206	665	201	*	*	*2
Jijiga Zone	13925	6919	12990	6339	411	131	*2
Jijiga	9957	4030	9206	3570	*	*	*2
Teferi Ber	1325	*	*	*	*	*	*1
Kebri Beyah	2643	2194	2598	2140	*	*	-5
Liben Zone	2108	871	2093	868	-	-	-1
Filtu	281	269	277	266	-	-	-5
Dolo Odo	319	84	307	82	-	-	-4
Moyale	1509	519	1509	519	-	-	-1

TABEL 6.17.1: CONTD.

All Crops							
Geographic Area	Type of Fertilizer Applied						
	UREA			DAP & UREA			
	Holder	Hectar	Quintal	Holder	Hectar	Quintal	
Somali Killil	426	167	*	717	289	350	
Shinele Zone	*	*	*	*	*	-	
Shinele	-	-	-	-	-	-	
Erer	*	*	*	*	*	-	
Jijiga Zone	401	162	*	693	287	350	
Jijiga	306	116	*	675	286	350	
Teferi Ber	*	*	*	*	*	-	
Kebri Beyah	*	*	-	-	-	-	
Liben Zone	*	*	*	*	*	*	
Filtu	*	*	*	-	-	-	
Dolo Odo	-	-	-	*	*	*	
Moyale	-	-	-	-	-	-	

TABEL 6.17.2: RURAL MEHER

All Crops			
Geographic Area	Total Fertilized Cropland	Type of Fertilizer Applied	
		Natural	Dap

	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	15582	7311	14615	6725	422	134	33
Shinele Zone	754	210	721	205	*	*	*
Shinele	78	15	78	15	-	-	-
Erer	675	196	643	190	*	*	*
Jijiga Zone	13434	6795	12499	6214	411	131	*
Jijiga	9709	3992	8958	3531	*	*	*
Teferi Ber	*	*	*	*	*	*	*
Kebri Beyah	2643	2194	2598	2140	*	*	-
Liben Zone	1395	305	1395	305	-	-	-
Filtu	127	*	127	*	-	-	-
Dolo Odo	302	72	302	72	-	-	-
Moyale	966	163	966	163	-	-	-

TABEL 6.17.2: CONTD.

All Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	410	164	*	706	288	350
Shinele Zone	*	*	*	*	*	-
Shinele	-	-	-	-	-	-
Erer	*	*	*	*	*	-
Jijiga Zone	401	162	*	693	287	350
Jijiga	306	116	*	675	286	350
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	-	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

TABEL 6.17.3: RURAL BELG

All Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1697	701	1669	698	-	-	-
Shinele Zone	100	11	88	11	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	100	11	88	11	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	1036	566	1020	562	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	841	357	841	357	-	-	-

TABEL 6.17.4: URBAN HOLDINGS.

All Crops								
Geographic Area	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Somali Killil	508	309	418	241	96	60	10	9
Shinele Zone	60	10	49	9	11	*	-	-
Shinele	60	10	49	9	11	*	-	-
Jijiga Zone	378	211	328	183	56	20	10	9
Jijiga	219	119	182	95	35	14	10	9
Teferi Ber	138	89	128	85	18	4	-	-

Kebri Beyah	*	*	*	*	*	*	-	-
Liben Zone	70	88	41	49	30	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	70	88	41	49	30	*	-	-

**TABLE 6.18: NUMBER OF HOLDERS APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS**

Grain Crops								
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied					
			Natural		Dap			
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal	
Somali Killil	15074	6852	14200	6341	317	78		29
Shinele Zone	649	150	606	144	*	*		*
Shinele	131	23	121	22	-	-		-
Erer	518	127	485	122	*	*		*
Jijiga Zone	12538	5783	11742	5311	306	76		*
Jijiga	8562	3081	7933	2692	*	*		*
Teferi Ber	1436	691	1290	621	*	*		*
Kebri Beyah	2540	2011	2518	1997	*	*		-
Liben Zone	1886	920	1853	887	-	-		-
Filtu	281	269	277	266	-	-		-
Dolo Odo	176	132	146	102	-	-		-
Moyale	1430	519	1430	519	-	-		-

TABLE 6.18 Contd.

Grain Crops								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical - DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Somali Killil	310	121	*	628	253	344	99	60
Shinele Zone	*	*	*	*	*	-	11	*
Shinele	-	-	-	-	-	-	11	*
Erer	*	*	*	*	*	*	-	-
Jijiga Zone	297	*	*	616	252	344	59	28
Jijiga	*	*	*	597	250	344	41	23
Teferi Ber	*	*	*	*	*	-	15	4
Kebri Beyah	*	*	-	-	-	-	*	*
Liben Zone	*	*	*	-	-	-	30	*
Filtu	*	*	*	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	30	*
Moyale	-	-	-	-	-	-	-	-

TABLE 6.18.1: RURAL HOLDING

Grain Crops								
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied					
			Natural		Dap			
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal	
Somali Killil	14665	6575	13875	6124	317	78		29
Shinele Zone	589	141	557	136	*	*		*
Shinele	72	14	72	14	-	-		-
Erer	518	127	485	122	*	*		*
Jijiga Zone	12253	5593	11500	5149	306	76		*
Jijiga	8431	2980	7835	2614	*	*		*
Teferi Ber	1304	605	*	*	*	*		*
Kebri Beyah	2519	2008	2500	1995	*	*		-
Liben Zone	1822	841	1818	839	-	-		-
Filtu	281	269	277	266	-	-		-
Dolo Odo	112	54	112	54	-	-		-
Moyale	1430	519	1430	519	-	-		-

TABLE 6.18.1: CONTD.

Grain Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	310	121	*	628	253	344
Shinele Zone	*	*	*	*	*	-
Shinele	-	-	-	-	-	-
Erer	*	*	*	*	*	-
Jijiga Zone	297	*	*	616	252	344
Jijiga	*	*	*	597	250	344
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	*	*	*	-	-	-
Filtu	*	*	*	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

TABEL 6.18.2: RURAL MEHER

Grain Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	13420	5885	12634	5436	317	78	29
Shinele Zone	568	133	536	127	*	*	*
Shinele	72	14	72	14	-	-	-
Erer	497	119	464	113	*	*	*
Jijiga Zone	11762	5476	11009	5032	306	76	*
Jijiga	8183	2949	7587	2583	*	*	*
Teferi Ber	*	*	*	*	*	*	*
Kebri Beyah	2519	2008	2500	1995	*	*	-
Liben Zone	1090	276	1090	276	-	-	-
Filtu	127	*	127	*	-	-	-
Dolo Odo	107	44	107	44	-	-	-
Moyale	855	162	855	162	-	-	-

TABLE 6.18.2: CONTD.

Grain Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	306	118	*	628	253	344
Shinele Zone	*	*	*	*	*	-
Shinele	-	-	-	-	-	-
Erer	*	*	*	*	*	-
Jijiga Zone	297	*	*	616	252	344
Jijiga	*	*	*	597	250	344
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	-	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

TABEL 6.18.3 : RURAL BELG

Grain Crops			
Geographic Area	Total Fertilized Cropland	Type of Fertilizer Applied	
		Natural	Dap

	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
<b>Somali Killil</b>	1660	690	1655	688	-	-	-
Shinele Zone	74	9	74	9	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	74	9	74	9	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	1024	565	1020	562	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	841	357	841	357	-	-	-

**TABEL 6.18.4: URBAN HOLDINGS**

Grain Crops								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
<b>Somali Killil</b>	408	277	325	217	90	51	10	9
Shinele Zone	60	9	49	8	11	*	-	-
Shinele	60	9	49	8	11	*	-	-
Jijiga Zone	284	190	241	161	49	19	10	9
Jijiga	131	101	98	78	31	14	10	9
Teferi Ber	132	86	125	82	15	4	-	-
Kebri Beyah	*	*	*	*	*	*	-	-
Liben Zone	64	79	34	48	30	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	64	79	34	48	30	*	-	-

**TABLE 6.19: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS.**

Cereals							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
<b>Somali Killil</b>	14910	6663	14032	6166	317	77	29
Shinele Zone	649	150	606	144	*	*	*
Shinele	131	23	121	22	-	-	-
Erer	518	127	485	122	*	*	*
Jijiga Zone	12490	5741	11690	5277	306	75	*
Jijiga	8514	3047	7882	2665	*	*	*
Teferi Ber	1436	691	1290	621	*	*	*
Kebri Beyah	2540	2004	2518	1991	*	*	-
Liben Zone	1770	772	1736	746	-	-	-
Filtu	275	249	271	247	-	-	-
Dolo Odo	148	92	118	69	-	-	-
Moyale	1347	431	1347	431	-	-	-

**TABLE 6.19 Contd.**

Cereals								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
<b>Somali Killil</b>	310	121	*	628	245	344	99	53
Shinele Zone	*	*	*	*	*	-	11	*
Shinele	-	-	-	-	-	-	11	*
Erer	*	*	*	*	*	-	-	-
Jijiga Zone	297	*	*	616	245	344	59	28
Jijiga	*	*	*	597	243	344	41	23
Teferi Ber	*	*	*	*	*	-	15	4
Kebri Beyah	*	*	-	-	-	-	*	*

Liben Zone	*	*	*	-	-	-	30	*
Filtu	*	*	*	-	-	-	-	*
Dolo Odo	-	-	-	-	-	-	30	*
Moyale	-	-	-	-	-	-	-	*

**TABEL 6.19.1 RURAL HOLDING**

Cereals							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	14510	6424	13720	5981	317	77	29
Shinele Zone	589	141	557	136	*	*	*
Shinele	72	14	72	14	-	-	-
Erer	518	127	485	122	*	*	*
Jijiga Zone	12206	5554	11453	5118	306	75	*
Jijiga	8383	2947	7788	2589	*	*	*
Teferi Ber	1304	605	*	*	*	*	*
Kebri Beyah	2519	2001	2500	1990	*	*	-
Liben Zone	1714	729	1710	727	-	-	-
Filtu	275	249	271	247	-	-	-
Dolo Odo	92	*	92	*	-	-	-
Moyale	1347	431	1347	431	-	-	-

**TABEL 6.19.1 CONTD.**

Cereals						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	310	121	*	628	245	344
Shinele Zone	*	*	*	*	*	-
Shinele	-	-	-	-	-	-
Erer	*	*	*	*	*	-
Jijiga Zone	297	*	*	616	245	344
Jijiga	*	*	*	597	243	344
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	*	*	*	-	-	-
Filtu	*	*	*	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

**TABEL 6.19.2 RURAL MEHER**

Cereals							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	13248	5778	12463	5337	317	77	29
Shinele Zone	568	133	536	127	*	*	*
Shinele	72	14	72	14	-	-	-
Erer	497	119	464	113	*	*	*
Jijiga Zone	11715	5437	10962	5001	306	75	*
Jijiga	8135	2916	7540	2558	*	*	*
Teferi Ber	*	*	*	*	*	*	*
Kebri Beyah	2519	2001	2500	1990	*	*	-
Liben Zone	965	209	965	209	-	-	-
Filtu	122	*	122	*	-	-	-

Dolo Odo	87	*	87	*	-	-	-
Moyale	757	99	757	99	-	-	-

TABEL 6.19..2 : CONTD.

Geographic Area	Cereals					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	306	118	*	628	245	344
Shinele Zone	*	*	*	*	*	-
Shinele	-	-	-	-	-	-
Erer	*	*	*	*	*	-
Jijiga Zone	297	*	*	616	245	344
Jijiga	*	*	*	597	243	344
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	-	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

TABEL 6.19.2a: Barley

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1638	*	1568	*	*	*	*
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	1638	*	1568	*	*	*	*
Jijiga	1397	*	*	*	*	*	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABEL 6.19.2b: Wheat

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	3047	815	2345	519	140	*	*
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	3047	815	2345	519	140	*	*
Jijiga	2771	668	2140	408	*	*	*
Teferi Ber	133	*	*	*	*	*	*
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABEL 6.19.2b: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal

Somali Killil	149	*	*	414	182	303
Shinele Zone	-	-	-	-	-	-
Shinele	-	-	-	-	-	-
Erer	-	-	-	-	-	-
Jijiga Zone	149	*	*	414	182	303
Jijiga	149	*	*	414	182	303
Teferi Ber	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

**TABEL 6.19.2c : Maize**

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	9481	2500	9125	2444	*	*	*
Shinele Zone	237	10	225	9	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	227	9	215	9	-	-	-
Jijiga Zone	8345	2315	8002	2260	*	*	*
Jijiga	5329	958	5059	915	*	*	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	2261	1177	2242	1172	*	*	-
Liben Zone	898	175	898	175	-	-	-
Filtu	122	*	122	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	744	99	744	99	-	-	-

**TABEL 6.19.2d : Sorghum**

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	6142	2145	5781	2063	*	*	*
Shinele Zone	527	123	507	118	*	*	*
Shinele	68	14	68	14	-	-	-
Erer	460	109	440	104	*	*	*
Jijiga Zone	5513	1988	5172	1911	*	*	-
Jijiga	3656	1016	3400	967	*	*	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	1098	699	1079	693	*	*	-
Liben Zone	102	*	102	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	*	*	*	*	-	-	-

**TABEL 6.19.2e : Oats**

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	300	*	300	*	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	300	*	300	*	-	-	-
Jijiga	*	*	*	*	-	-	-



Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABEL 6.19.3: RURAL BELG

Cereals							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1637	646	1633	643	-	-	-
Shinele Zone	74	9	74	9	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	74	9	74	9	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	1002	520	998	518	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	819	331	819	331	-	-	-

TABEL 6.19.4: URBAN HOLDINGS

Cereals								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Somali Killil	400	239	313	186	90	44	10	9
Shinele Zone	60	9	49	8	11	*	-	-
Shinele	60	9	49	8	11	*	-	-
Jijiga Zone	284	187	237	159	49	19	10	9
Jijiga	131	99	94	76	31	14	10	9
Teferi Ber	132	85	125	81	15	4	-	-
Kebri Beyah	*	*	*	*	*	*	-	-
Liben Zone	56	43	*	*	30	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	56	43	*	*	30	*	-	-

TABLE 6.20: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS.

Pulses							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1377	174	1325	166	*	*	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	361	34	309	25	*	*	-
Jijiga	294	26	*	*	-	-	-
Teferi Ber	5	*	5	*	-	-	-
Kebri Beyah	*	*	*	*	*	*	-
Liben Zone	1016	141	1016	141	-	-	-
Filtu	*	*	*	*	-	-	-

Dolo Odo	*	33	*	33	-	-	-
Moyale	930	88	930	88	-	-	-

**TABEL 6.20.1: RURAL HOLDING**

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1347	144	1296	136	*	*	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	347	32	295	*	*	*	-
Jijiga	288	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	-
Liben Zone	1001	112	1001	112	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	930	88	930	88	-	-	-

**TABEL 6.20.2: RURAL MEHER**

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1125	99	1073	91	*	*	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	347	32	295	*	*	*	-
Jijiga	288	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	-
Liben Zone	778	67	778	67	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	737	63	737	63	-	-	-

**TABEL 6.20.2a : Haricot beans**

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1041	90	1008	83	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	263	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	778	67	778	67	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	737	62	737	62	-	-	-

**TABEL 6.20.3: RURAL BELG**

Pulses
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Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
<b>Somali Killil</b>	328	45	328	45	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	328	45	328	45	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	299	*	299	*	-	-	-

**TABEL 6.20.4: URBAN HOLDINGS**

Pulses								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
<b>Somali Killil</b>	29	30	29	30	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Jijiga Zone	14	2	14	2	-	-	-	-
Jijiga	6	1	6	1	-	-	-	-
Teferi Ber	5	*	5	*	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-	-
Liben Zone	15	*	15	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	15	*	15	*	-	-	-	-

**TABLE 6.21: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS.**

Oil seeds							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
<b>Somali Killil</b>	*	*	*	*	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	-	-	-	-	-
Moyale	*	*	*	*	-	-	-

**TABEL 6.21.1: URBAN HOLDINGS**

Oil seeds								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
<b>Somali Killil</b>	12	*	8	1	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Jijiga Zone	8	1	8	1	-	-	-	-
Jijiga	8	1	8	1	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-

Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	*	-	-	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	*	-	-	*	*	-	-

TABLE 6.22: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	688	41	555	37	*	*	*
Shinele Zone	171	6	155	6	-	-	-
Shinele	*	*	-	-	-	-	-
Erer	167	6	155	6	-	-	-
Jijiga Zone	462	*	358	*	*	*	*
Jijiga	*	*	*	*	*	*	*
Teferi Ber	6	*	*	*	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.22 Contd.

Vegetables								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Somali Killil	*	*	*	-	-	-	19	1
Shinele Zone	*	*	*	-	-	-	*	*
Shinele	-	-	-	-	-	-	*	*
Erer	*	*	*	-	-	-	-	-
Jijiga Zone	*	*	*	-	-	-	3	*
Jijiga	*	*	*	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	3	*
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	*	*
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	*	*
Moyale	-	-	-	-	-	-	-	-

TABLE 6.22.1: RURAL HOLDING

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	650	39	537	36	*	*	*
Shinele Zone	167	6	155	6	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	167	6	155	6	-	-	-
Jijiga Zone	*	*	347	*	*	*	*
Jijiga	*	*	*	*	*	*	*
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.22.2: RURAL MEHER

Vegetables
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Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	603	38	502	35	*	*	*
Shinele Zone	121	5	121	5	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	121	5	121	5	-	-	-
Jijiga Zone	*	*	347	*	*	*	*
Jijiga	*	*	*	*	*	*	*
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.22.2a: Tomatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	350	*	279	*	*	*	*
Shinele Zone	121	4	121	4	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	121	4	121	4	-	-	-
Jijiga Zone	*	*	*	*	*	*	*
Jijiga	*	*	*	*	*	*	*
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.22.2b: Green Pepper

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	120	*	120	*	-	-	-
Shinele Zone	*	*	*	*	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	*	*	*	*	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.22.3: RURAL BELG

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	47	1	34	1	-	-	-
Shinele Zone	47	1	34	1	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	47	1	34	1	-	-	-
Jijiga Zone	-	-	-	-	-	-	-

Jijiga	-	-	-	-	-
Teferi Ber	-	-	-	-	-
Kebri Beyah	-	-	-	-	-
Liben Zone	-	-	-	-	-
Filtu	-	-	-	-	-
Dolo Odo	-	-	-	-	-
Moyale	-	-	-	-	-

**TABEL 6.22.3: URBAN HOLDINGS**

Vegetables								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
<b>Somali Killil</b>	37	2	18	1	19	1	-	-
Shinele Zone	*	*	-	-	*	*	-	-
Shinele	*	*	-	-	*	*	-	-
Jijiga Zone	15	1	12	*	3	*	-	-
Jijiga	6	*	6	*	-	-	-	-
Teferi Ber	6	*	*	*	3	*	-	-
Kebri Beyah	*	*	*	*	-	-	-	-
Liben Zone	19	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	19	*	*	*	*	*	-	-

**TABLE 6.23: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS.**

Root Crops								
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied					
			Natural		Dap			
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal	
<b>Somali Killil</b>	1438	65	1214	51	*	*		*
Shinele Zone	95	4	91	4	-	-		-
Shinele	*	*	*	*	-	-		-
Erer	84	3	84	3	-	-		-
Jijiga Zone	1283	43	1084	37	*	*		*
Jijiga	1280	43	1081	37	*	*		*
Teferi Ber	*	*	*	*	-	-		-
Kebri Beyah	-	-	-	-	-	-		-
Liben Zone	*	*	*	*	-	-		-
Filtu	-	-	-	-	-	-		-
Dolo Odo	*	*	*	*	-	-		-
Moyale	-	-	-	-	-	-		-

**TABLE 6.23.1: RURAL HOLDING**

Root Crops								
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied					
			Natural		Dap			
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal	
<b>Somali Killil</b>	1412	58	1202	50	*	*		*
Shinele Zone	91	4	91	4	-	-		-
Shinele	*	*	*	*	-	-		-
Erer	84	3	84	3	-	-		-
Jijiga Zone	1274	43	1075	36	*	*		*
Jijiga	1274	43	1075	36	*	*		*

Teferi Ber	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-
Moyale	-	-	-	-	-	-

TABLE 6.23.2: RURAL MEHER

Geographic Area	Root Crops					
	Total Fertilized Cropland		Type of Fertilizer Applied			
			Natural		Dap	
	Holder	Hectar	Holder	Hectar	Holder	Hectar Quintal
Somali Killil	1224	48	1025	42	*	* *
Shinele Zone	80	3	80	3	-	- -
Shinele	*	*	*	*	-	- -
Erer	73	2	73	2	-	- -
Jijiga Zone	1109	36	910	29	*	* *
Jijiga	1109	36	910	29	*	* *
Teferi Ber	-	-	-	-	-	- -
Kebri Beyah	-	-	-	-	-	- -
Liben Zone	*	*	*	*	-	- -
Filtu	-	-	-	-	-	- -
Dolo Odo	*	*	*	*	-	- -
Moyale	-	-	-	-	-	- -

TABLE 6.23.2a: Onion

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied			
			Natural		Dap	
	Holder	Hectar	Holder	Hectar	Holder	Hectar Quintal
Somali Killil	356	*	323	*	-	- -
Shinele Zone	*	*	*	*	-	- -
Shinele	-	-	-	-	-	- -
Erer	*	*	*	*	-	- -
Jijiga Zone	283	*	*	*	-	- -
Jijiga	283	*	*	*	-	- -
Teferi Ber	-	-	-	-	-	- -
Kebri Beyah	-	-	-	-	-	- -
Liben Zone	*	*	*	*	-	- -
Filtu	-	-	-	-	-	- -
Dolo Odo	*	*	*	*	-	- -
Moyale	-	-	-	-	-	- -

TABLE 6.23.2a: Sweet Potatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied			
			Natural		Dap	
	Holder	Hectar	Holder	Hectar	Holder	Hectar Quintal
Somali Killil	*	*	74	4	*	* *
Shinele Zone	41	2	41	2	-	- -
Shinele	*	*	*	*	-	- -
Erer	34	2	34	2	-	- -
Jijiga Zone	*	*	*	*	*	* *
Jijiga	*	*	*	*	*	* *
Teferi Ber	-	-	-	-	-	- -
Kebri Beyah	-	-	-	-	-	- -
Liben Zone	-	-	-	-	-	- -
Filtu	-	-	-	-	-	- -
Dolo Odo	-	-	-	-	-	- -
Moyale	-	-	-	-	-	- -

TABEL 6.23.3: URBAN HOLDINGS

Root Crops								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Somali Killil	25	*	12	1	*	*	-	-
Shinele Zone	*	*	-	-	*	*	-	-
Shinele	*	*	-	-	*	*	-	-
Jijiga Zone	9	*	9	*	-	-	-	-
Jijiga	6	*	6	*	-	-	-	-
Teferi Ber	*	*	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	-	-

TABLE 6.24: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR MEHER SEASON.

Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	7877	1362	7410	1234	180	*	*
Shinele Zone	461	71	461	71	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	450	70	450	70	-	-	-
Jijiga Zone	6973	1281	6510	1154	180	*	*
Jijiga	6197	1018	5760	933	155	25	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	170	*	*	*	*	-
Liben Zone	443	*	440	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	221	*	218	*	-	-	-
Moyale	222	*	222	*	-	-	-

TABLE 6.24 Contd.

Permanent Crops								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Somali Killil	143	*	*	228	33	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	143	*	*	228	33	*	*	*
Jijiga	*	*	*	228	33	*	*	*
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	*	*
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	*	*
Moyale	-	-	-	-	-	-	-	-

TABLE 6.24.1: RURAL MEHER

Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	7740	1339	7281	1212	180	*	*



Shinele Zone	457	70	457	70	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	450	70	450	70	-	-	-
Jijiga Zone	6854	1261	6395	1134	180	*	*
Jijiga	6093	1001	5660	916	155	25	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	170	*	*	*	*	-
Liben Zone	429	*	429	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	207	*	207	*	-	-	-
Moyale	222	*	222	*	-	-	-

TABLE 6.24.1 Contd.

Permanent Crops								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
<b>Somali Killil</b>	143	*	*	228	33	*	143	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	143	*	*	228	33	*	143	*
Jijiga	*	*	*	228	33	*	*	*
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	-	-	*	*
Liben Zone	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-

TABEL 6.24.2: URBAN HOLDINGS

Permanent Crops								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
<b>Somali Killil</b>	137	23	129	22	*	*	-	-
Shinele Zone	*	*	*	*	-	-	-	-
Shinele	*	*	*	*	-	-	-	-
Jijiga Zone	118	20	114	20	*	*	-	-
Jijiga	104	17	100	17	*	*	-	-
Teferi Ber	15	3	15	3	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	14	*	11	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	14	*	11	*	*	*	-	-

TABLE 6.25: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR MEHER SEASON

Fruit Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
<b>Somali Killil</b>	1076	116	1000	71	*	*	-
Shinele Zone	407	56	407	56	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	396	55	396	55	-	-	-
Jijiga Zone	237	*	165	*	*	*	-

Jijiga	209	*	163	*	*	*	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	*	-	-	*	*	-
Liben Zone	431	*	428	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	210	*	206	*	-	-	-
Moyale	222	*	222	*	-	-	-

TABLE 6.25.1: RURAL MEHER

Fruit Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1049	112	977	69	*	*	-
Shinele Zone	403	55	403	55	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	396	55	396	55	-	-	-
Jijiga Zone	229	*	157	*	*	*	-
Jijiga	204	*	157	*	*	*	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	*	*	-
Liben Zone	417	*	417	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	195	*	195	*	-	-	-
Moyale	222	*	222	*	-	-	-

TABLE 6.25.1a: Banana

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	257	27	257	27	-	-	-
Shinele Zone	206	22	206	22	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	199	21	199	21	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	*	*	*	*	-	-	-

TABLE 6.25.1b: Guava(Zeytuna)

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	164	*	139	*	*	*	-
Shinele Zone	40	1	40	1	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	34	*	34	*	-	-	-
Jijiga Zone	*	*	*	*	*	*	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	*	*	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	*	*	*	*	-	-	-

TABLE 6.25.1c: Lemon

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	223	11	223	11	-	-	-
Shinele Zone	203	10	203	10	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	203	10	203	10	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.25.1d: Mango

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	291	6	291	6	-	-	-
Shinele Zone	79	*	79	*	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	79	*	79	*	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	*	*	*	*	-	-	-

TABLE 6.25.1e: Orange

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	260	19	234	14	*	*	-
Shinele Zone	234	14	234	14	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	227	14	227	14	-	-	-
Jijiga Zone	*	*	-	-	*	*	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	*	*	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.25.1f: Papapayas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	348	*	322	3	*	*	-

Shinele Zone	73	3	73	3	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	73	3	73	3	-	-	-
Jijiga Zone	*	*	*	*	*	*	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	*	*	-
Liben Zone	214	*	214	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	190	*	190	*	-	-	-

TABLE 6.25.1g: Other Fruits

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	144	*	98	2	*	*	-
Shinele Zone	98	2	98	2	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	98	2	98	2	-	-	-
Jijiga Zone	*	*	-	-	*	*	-
Jijiga	*	*	-	-	*	*	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABEL 6.25.2: URBAN HOLDINGS

Fruit Crops								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Somali Killil	26	4	23	2	*	*	-	-
Shinele Zone	*	*	*	*	-	-	-	-
Shinele	*	*	*	*	-	-	-	-
Jijiga Zone	8	*	8	*	-	-	-	-
Jijiga	5	*	5	*	-	-	-	-
Teferi Ber	*	*	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	14	*	11	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	14	*	11	*	*	*	-	-

TABLE 6.26: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN ASREAS, FOR MEHER SEASON

Stimulant Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	7156	1246	6718	1163	155	23	*
Shinele Zone	222	15	222	15	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	222	15	222	15	-	-	-
Jijiga Zone	6934	1231	6496	1148	155	23	*
Jijiga	6187	1010	5749	927	155	23	*

Teferi Ver	*	*	*	*	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.26 Contd.

Stimulant Crops								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Somali Killil	*	*	*	228	33	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	*	*	*	228	33	*	*	*
Jijiga	*	*	*	228	33	*	*	*
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-

TABLE 6.26.1: RURAL MEHER

Stimulant Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	7051	1227	6617	1143	155	23	*
Shinele Zone	222	15	222	15	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	222	15	222	15	-	-	-
Jijiga Zone	6829	1212	6395	1129	155	23	*
Jijiga	6093	993	5660	910	155	23	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.26.1 Contd.

Stimulant Crops								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Somali Killil	*	*	*	228	33	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	*	*	*	228	33	*	*	*
Jijiga	*	*	*	228	33	*	*	*
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-

TABLE 6.26.1a: Chat

Geographic	Total Fertilized	Type of Fertilizer Applied
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Area	Cropland		Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	7014	1225	6580	1142	155	23	*
Shinele Zone	185	13	185	13	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	185	13	185	13	-	-	-
Jijiga Zone	6829	1212	6395	1129	155	23	*
Jijiga	6093	993	5660	910	155	23	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABEL 6.26.1a: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	*	*	*	228	33	*
Shinele Zone	-	-	-	-	-	-
Shinele	-	-	-	-	-	-
Erer	-	-	-	-	-	-
Jijiga Zone	*	*	*	228	33	*
Jijiga	*	*	*	228	33	*
Teferi Ber	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

TABEL 6.26.2: URBAN HOLDINGS

Stimulant Crops								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Somali Killil	105	20	101	19	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Jijiga Zone	105	20	101	19	*	*	-	-
Jijiga	93	17	89	17	*	*	-	-
Teferi Ber	12	3	12	3	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-

TABLE 6.27: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN ASREAS, FOR MEHER SEASON

Other Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	41	*	41	*	-	-	-
Shinele Zone	*	*	*	*	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	*	*	*	*	-	-	-
Jijiga Zone	5	-	5	-	-	-	-
Jijiga	5	-	5	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-

Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.27.1: RURAL MEHER

Other Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
<b>Somali Killil</b>							
Shinele Zone							
Shinele							
Erer	123	2	123	2	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	123	2	123	2	-	-	-
Filtu	101	*	101	*	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	22	*	22	*	-	-	-

TABLE 6.27.1a: Suger Cane

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
<b>Somali Killil</b>							
Shinele Zone							
Shinele							
Erer	123	2	123	2	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	123	2	123	2	-	-	-
Filtu	101	*	101	*	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	22	*	22	*	-	-	-

TABEL 6.27.2: URBAN HOLDINGS

Permanent Crops								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
<b>Somali Killil</b>	5	-	5	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Jijiga Zone	5	-	5	-	-	-	-	-
Jijiga	5	-	5	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-

TABLE 6.29: HOLDERS APPLYING IMPROVED SEEDS AND QUANTITY BY TYPE OF CROP FOR RURAL AREAS IN MEHER SEASON, FOR PRIVATE HOLDINGS

Geographic Area	All crop		Grain		Cereals		Teff	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Somali Killil	2506	384	2141	384	2055	372	-	-
Shinele Zone	152	3	110	3	110	3	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	152	3	110	3	110	3	-	-
Jijiga Zone	1679	348	1602	348	1562	345	-	-
Jijiga	1207	*	1207	*	1167	*	-	-
Teferi Ber	214	*	214	*	214	*	-	-
Kebri Beyah	258	*	181	*	181	*	-	-
Liben Zone	675	33	430	33	384	24	-	-
Filtu	278	25	278	25	272	21	-	-
Dolo Odo	344	*	137	*	97	*	-	-
Moyale	53	*	*	*	*	*	-	-

TABLE 6.29: CONTD.

Geographic Area	Barley		Wheat		Maize		Sorghum	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Somali Killil	*	*	423	*	1264	95	867	16
Shinele Zone	-	-	-	-	*	-	110	3
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	*	-	110	3
Jijiga Zone	*	-	419	*	881	72	743	*
Jijiga	*	-	*	*	588	40	573	*
Teferi Ber	*	-	*	*	*	*	*	*
Kebri Beyah	-	-	*	*	181	*	*	-
Liben Zone	*	*	*	*	376	24	*	*
Filtu	*	*	*	*	264	20	*	*
Dolo Odo	-	-	-	-	97	*	*	-
Moyale	-	-	-	-	*	*	-	-

TABLE 6.29: CONTD.

Geographic Area	Millet		Oats		Rice		Pulse	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Somali Killil	-	-	*	-	-	-	213	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	-	-	*	-	-	-	*	*
Jijiga	-	-	*	-	-	-	*	*
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	138	*
Filtu	-	-	-	-	-	-	79	4
Dolo Odo	-	-	-	-	-	-	*	*
Moyale	-	-	-	-	-	-	*	*

TABLE 6.29: CONTD.

Geographic Area	Horse bean		Field peas		Haricot beans		Chick peas	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Somali Killil	-	-	*	*	209	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	*	*	-	-
Jijiga	-	-	-	-	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	*	*	134	*	*	*
Filtu	-	-	-	-	76	3	*	*
Dolo Odo	-	-	-	-	*	*	-	-
Moyale	-	-	*	*	*	*	-	-



TABLE 6.29: CONTD.

Geographic Area	Number of holders who used improved seeds						
	Vegetables	Lettuce	Head Cabbage	Kale	Tomatoes	Green Peppers	Red Peppers
Somali Killil	*	-	*	-	*	-	-
Shinele Zone	2	-	-	-	2	-	-
Shinele	-	-	-	-	-	-	-
Erer	2	-	-	-	2	-	-
Jijiga Zone	*	-	*	-	*	-	-
Jijiga	*	-	*	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	*	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.29: CONTD.

Geographic Area	Number of holders who used improved seeds						
	Permanent crops	Fruit crops	Avocado	Bananas	Mangos	Oranges	Papayas
Somali Killil	315	315	-	*	*	70	*
Shinele Zone	45	45	-	*	-	45	-
Shinele	-	-	-	-	-	-	-
Erer	45	45	-	*	-	45	-
Jijiga Zone	*	*	-	-	-	*	*
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	-	*	*
Liben Zone	*	*	-	-	-	*	*
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	-	-	*	-	*
Moyale	*	*	-	-	-	-	*

TABLE 6.30: Holders Applying Agricultural Inputs and Participating in Extension Programs by Level of Education in Rural and Urban Areas, for Private Holdings

[illegible]

TABLE 6.30.1: RURAL HOLDINGS

[illegible]

TABLE 6.30.2: RURAL MEHER

EDUCATIONAL ATTAINMENT			Number of Holders Applying Agricultural Inputs								Number and Percentage of Holders Participating in Agriculture Extension Programs	
			Improved Seed		Irrigation		Fertilizer		Pesticide			
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
ALL .....	83503	100	2506	3	8290	9.93	15582	18.66	549	0.66	1346	1.61
Illiterate .....	62041	100	1375	2.22	5617	9.05	11062	17.83	302	0.49	937	1.51
Literate, but no formal Education.....	17706	100	916	5.17	1770	10	3691	20.85	186	1.05	314	1.77
Completed Grade 1 ..	240	100	-	-	60	25	*	*	-	-	*	*
Completed Grade 2 ..	557	100	*	*	150	26.93	*	*	-	-	-	-
Completed Grade 3 ..	504	100	*	*	*	*	151	29.96	-	-	*	*
Completed Grade 4 ..	754	100	52	6.9	235	31.17	51	6.76	-	-	-	-
Completed Grade 5 ..	581	100	*	*	175	30.12	259	44.58	*	*	*	*
Completed Grade 6 ..	226	100	-	-	*	*	*	*	-	-	-	-
Completed Grade 7 ..	253	100	-	-	*	*	*	*	*	*	-	-
Completed Grade 8 ..	264	100	*	*	74	28.03	*	*	-	-	-	-
Completed Grade 9 ..	*	*	-	-	*	*	*	*	-	-	-	-
Completed Grade 10	*	*	*	*	*	*	*	*	-	-	-	-
Completed Grade 11	-	-	-	-	-	-	-	-	-	-	-	-
Completed Grade 12	191	100	-	-	*	*	*	*	-	-	-	-

[illegible]



TABLE 6.30.3: RURAL BELG

[illegible]

TABLE 6.30.4: URBAN HOLDINGS

EDUCATIONAL ATTAINMENT	All Crop Holders		Number & Percentage of Holders in Education Category who Applied:							
			Improved Seed		Irrigation		Fertilizer		Pesticide	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
ALL	3285	100	64	1.95	420	12.79	508	15.46	90	2.74
Illiterate	1863	100	41	2.2	170	9.13	202	10.84	26	1.4
Literate, but no formal Education	710	100	7	0.99	71	10	115	16.2	31	4.37
Completed Grade 1	17	100	-	-	11	64.71	-	-	-	-
Completed Grade 2	20	100	-	-	-	-	-	-	-	-
Completed Grade 3	43	100	-	-	24	55.81	15	34.88	*	*
Completed Grade 4	45	100	-	-	17	37.78	13	28.89	*	*
Completed Grade 5	81	100	*	*	18	22.22	21	25.93	*	*
Completed Grade 6	77	100	-	-	40	51.95	47	61.04	-	-
Completed Grade 7	68	100	*	*	15	22.06	9	13.24	*	*
Completed Grade 8	83	100	-	-	-	-	17	20.48	*	*
Completed Grade 9	47	100	-	-	*	*	*	*	*	*



[illegible]

TABLE 6.31: TOTAL NUMBER OF HOLDERS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	91300	66327	19784	257	691	622	869	769	384	381	430	198	136	12	367	74
Shinele Zone	2929	2507	247	-	18	21	57	*	*	-	*	-	*	-	-	-
Shinele	816	719	85	-	*	7	-	*	-	-	-	-	-	-	-	-
Erer	2113	1787	162	-	*	*	57	*	*	-	*	-	*	-	-	-
Jijiga Zone	74022	56144	14942	134	389	403	485	449	208	200	223	*	40	12	267	*
Jijiga	36743	27507	7796	8	*	200	329	284	139	*	*	*	14	10	*	8
Teferi Ver	21227	17383	2963	*	85	*	92	46	*	132	77	21	23	2	158	*
Kebri Beyah	16052	11254	4184	94	134	*	*	119	*	-	*	*	*	-	39	-
Liben Zone	14349	7676	4594	123	283	199	327	280	165	181	189	114	*	-	100	*
Filtu	2910	1895	863	*	18	*	56	*	*	-	*	-	1	-	-	-
Dolo Odo	4846	2572	1525	70	113	*	156	98	*	43	106	*	*	-	21	*
Moyale	6592	3209	2206	*	153	108	115	171	102	139	68	*	*	-	79	*

TABLE 6.31.1: RURAL HOLDINGS

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate But not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	88015	64464	19074	240	670	579	824	688	308	313	347	152	*	-	210	*
Shinele Zone	2673	2300	209	-	*	*	57	*	*	-	*	-	*	-	-	-
Shinele	560	513	47	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	2113	1787	162	-	*	*	57	*	*	-	*	-	*	-	-	-
Jijiga Zone	71313	54599	14369	120	371	381	458	389	*	*	147	*	-	-	132	*
Jijiga	35946	27071	7633	-	*	180	321	276	*	*	*	*	-	-	*	-
Teferi Ber	20124	16765	2769	*	74	*	76	-	*	*	*	-	-	-	*	*
Kebri Beyah	15243	10762	3968	88	128	*	*	113	-	-	*	-	-	-	-	-
Liben Zone	14029	7565	4495	120	283	185	309	262	165	166	183	*	*	-	79	*
Filtu	2907	1895	862	*	18	*	*	*	*	-	*	-	-	-	-	-
Dolo Odo	4529	2461	1428	66	113	*	139	79	*	*	100	*	-	-	-	-
Moyale	6592	3209	2206	*	153	108	115	171	102	139	68	*	*	-	79	*

TABLE 6.31.2: RURAL MEHER

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	83503	62041	17706	240	557	504	754	581	226	253	264	*	*	-	191	*
Shinele Zone	2673	2300	209	-	*	*	57	*	*	-	*	-	*	-	-	-
Shinele	560	513	47	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	2113	1787	162	-	*	*	57	*	*	-	*	-	*	-	-	-
Jijiga Zone	71246	54554	14369	120	349	381	458	389	*	*	147	*	-	-	132	*
Jijiga	35946	27071	7633	-	*	180	321	276	*	*	*	*	-	-	*	-
Teferi Ber	20124	16765	2769	*	74	*	76	-	*	*	*	-	-	-	*	*
Kebri Beyah	15176	10717	3968	88	106	*	*	113	-	-	*	-	-	-	-	-
Liben Zone	9584	5186	3128	120	192	109	239	155	83	106	100	*	*	-	59	*
Filtu	2220	1512	610	*	*	*	*	*	-	-	-	-	-	-	-	-
Dolo Odo	3442	1797	1126	66	113	*	136	79	*	*	*	-	-	-	-	-
Moyale	3923	1877	1392	*	68	59	*	64	55	103	*	*	*	-	59	*

TABLE 6.31.3: RURAL BELG

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above
																Grade 12
Somali Killil	16769	10642	4176	135	340	147	306	290	141	112	185	*	*	-	79	*
Shinele Zone	708	594	67	-	-	-	38	-	-	-	*	-	-	-	-	-
Shinele	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	610	517	46	-	-	-	38	-	-	-	*	-	-	-	-	-
Jijiga Zone	4604	3916	474	*	*	-	*	*	-	-	-	-	-	-	-	-
Jijiga	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	1117	1100	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Kebri Beyah	1840	1422	251	*	*	-	-	*	-	-	-	-	-	-	-	-
Liben Zone	11457	6132	3635	80	257	147	250	230	141	112	177	*	*	-	79	*
Filtu	1794	1090	605	-	18	*	*	-	*	-	*	-	-	-	-	-
Dolo Odo	3386	1992	881	*	*	*	99	*	*	*	100	*	-	-	-	-
Moyale	6276	3050	2150	*	153	80	115	171	89	84	62	*	*	-	79	*

TABLE 6.31.4: URBAN HOLDINGS

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	3285	1863	710	17	20	43	45	81	77	68	83	47	44	12	157	20
Shinele Zone	256	206	38	-	*	7	-	*	-	-	-	-	-	-	-	-
Shinele	256	206	38	-	*	7	-	*	-	-	-	-	-	-	-	-
Jijiga Zone	2709	1545	573	14	18	22	27	60	77	53	76	40	40	12	135	17
Jijiga	796	436	162	8	-	20	8	8	44	7	28	8	14	10	35	8
Teferi Ber	1104	618	194	-	12	2	16	46	18	45	36	21	23	2	62	9
Kebri Beyah	809	492	216	*	*	-	*	*	*	-	12	*	*	-	39	-
Liben Zone	320	111	99	*	-	14	18	18	-	15	*	*	*	-	21	*
Filtu	3	-	1	-	-	-	1	-	-	-	-	-	1	-	-	-
Dolo Odo	317	111	98	*	-	14	17	18	-	15	*	*	*	-	21	*

TABLE 6.32: APPLICATION OF IMPROVED SEEDS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

[illegible]

TABLE 6.32.1: RURAL HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	2607	1406	970	-	*	*	52	*	-	-	*	-	*	-	-	-
Shinele Zone	152	111	*	-	-	-	*	-	-	-	-	-	*	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	152	111	*	-	-	-	*	-	-	-	-	-	*	-	-	-
Jijiga Zone	1679	939	639	-	-	-	-	*	-	-	*	-	-	-	-	-
Jijiga	1207	613	519	-	-	-	-	*	-	-	-	-	-	-	-	-
Teferi Ber	214	185	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	258	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	776	356	322	-	*	*	*	*	-	-	-	-	-	-	-	-
Filtu	289	173	83	-	*	*	*	*	-	-	-	-	-	-	-	-
Dolo Odo	375	138	*	-	*	-	*	*	-	-	-	-	-	-	-	-
Moyale	112	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.32.2: RURAL MEHER



[illegible]

TABLE 6.32.3: RURAL BELG

[illegible]

TABLE 6.32.4: URBAN HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	64	41	7	-	-	-	-	*	-	*	-	-	-	2	*	-
Shinele Zone	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shinele	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	38	26	7	-	-	-	-	-	-	*	-	-	-	2	-	-
Jijiga	25	18	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	9	*	-	-	-	-	-	-	-	*	-	-	-	2	-	-
Kebri Beyah	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	11	-	-	-	-	-	-	*	-	*	-	-	-	-	*	-
Filtu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	11	-	-	-	-	-	-	*	-	*	-	-	-	-	*	-



TABLE 6.33.1: RURAL HOLDINGS

Geographic Area	Holders Practicing Irrigation														
	All Holders	Grades Completed by Holder													
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Above Grade 12
Somali Killil	8551	5708	1868	60	180	*	235	175	*	*	74	*	*	-	*
Shinele Zone	1850	1547	151	-	*	*	57	*	*	-	*	-	*	-	-
Shinele	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Erer	1711	1436	123	-	*	*	57	*	*	-	*	-	*	-	-
Jijiga Zone	3511	2609	686	-	*	-	*	*	-	*	*	-	-	-	-
Jijiga	3442	2591	686	-	*	-	*	*	-	-	-	-	-	-	-
Teferi Ber	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-	-	*	-	-	-	-
Liben Zone	3190	1551	1032	60	*	*	133	92	*	*	*	*	-	-	*
Filtu	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	2680	1401	834	*	*	*	133	79	*	*	*	-	-	-	-
Moyale	456	118	187	*	-	*	-	*	-	*	-	*	-	-	*

TABLE 6.33.2: RURAL MEHER

Geographic Area	Holders Practicing Irrigation															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11		Above Grade 12
															Grade 12	
Somali Killil	8290	5617	1770	60	150	*	235	175	*	*	74	*	*	-	*	-
Shinele Zone	1833	1530	151	-	*	*	57	*	*	-	*	-	*	-	-	-
Shinele	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	1694	1418	123	-	*	*	57	*	*	-	*	-	*	-	-	-
Jijiga Zone	3441	2609	646	-	*	-	*	*	-	*	*	-	-	-	-	-
Jijiga	3372	2591	646	-	*	-	*	*	-	-	-	-	-	-	-	-
Teferi Ber	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	3016	1477	973	60	*	*	133	92	*	*	*	*	-	-	*	-
Filtu	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	2544	1327	795	*	*	*	133	79	*	*	*	-	-	-	-	-
Moyale	418	118	167	*	-	*	-	*	-	*	-	*	-	-	*	-

TABLE 6.33.3: RURAL BELG

Geographic Area	Holders Practicing Irrigation															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11		Above Grade 12
															Grade 12	
Somali Killil	1808	1210	317	*	*	*	74	*	*	*	*	-	-	-	-	-
Shinele Zone	657	551	58	-	-	-	38	-	-	-	*	-	-	-	-	-
Shinele	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	559	475	37	-	-	-	38	-	-	-	*	-	-	-	-	-
Jijiga Zone	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Jijiga	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	846	424	219	*	*	*	*	*	*	*	*	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	763	404	174	*	*	*	*	*	*	*	-	-	-	-	-	-
Moyale	*	*	*	-	-	-	-	-	-	*	-	-	-	-	-	-

TABLE 6.33.4: URBAN HOLDINGS

Geographic Area	Holders Practicing Irrigation															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	420	170	71	11	-	24	17	18	40	15	-	*	*	-	33	11
Shinele Zone	45	35	7	-	-	*	-	-	-	-	-	-	-	-	-	-
Shinele	45	35	7	-	-	*	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	147	57	9	8	-	7	-	-	40	-	-	-	-	-	18	8
Jijiga	135	51	6	8	-	7	-	-	40	-	-	-	-	-	15	8
Teferi Ber	8	6	-	-	-	-	-	-	-	-	-	-	-	-	*	-
Kebri Beyah	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	228	78	55	*	-	14	17	18	-	15	-	*	*	-	15	*
Filtu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	228	78	55	*	-	14	17	18	-	15	-	*	*	-	15	*



TABLE 6.34: APPLICATION OF FERTILIZERS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders Applying Fertilizers															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	17329	12026	4121	*	137	166	83	304	63	150	99	*	33	-	69	*
Shinele Zone	848	723	57	-	-	-	33	*	*	-	-	-	*	-	-	-
Shinele	138	120	19	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	710	604	38	-	-	-	33	*	*	-	-	-	*	-	-	-
Jijiga Zone	14302	10490	3220	-	*	*	*	194	47	*	*	*	19	-	55	-
Jijiga	10176	7358	2364	-	*	*	-	184	40	*	*	-	6	-	8	-
Teferi Ber	1463	1272	*	-	-	-	*	9	7	*	9	*	13	-	*	-
Kebri Beyah	2664	1859	779	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	2179	813	844	*	*	49	*	97	*	118	*	*	*	-	*	*
Filtu	281	101	180	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	389	149	114	-	*	*	*	*	-	*	*	-	*	-	*	*
Moyale	1509	562	550	*	*	*	*	60	*	111	*	*	-	-	*	-

TABLE 6.34.1: RURAL HOLDINGS

Geographic Area	Holders Applying Fertilizers															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	16821	11824	4006	*	137	151	70	282	*	141	*	*	*	-	*	-
Shinele Zone	788	675	45	-	-	-	33	*	*	-	-	-	*	-	-	-
Shinele	78	72	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	710	604	38	-	-	-	33	*	*	-	-	-	*	-	-	-
Jijiga Zone	13925	10353	3133	-	*	*	*	180	-	*	*	-	-	-	*	-
Jijiga	9957	7277	2304	-	*	*	-	180	-	*	*	-	-	-	-	-
Teferi Ber	1325	1219	*	-	-	-	*	-	-	-	-	-	-	-	*	-
Kebri Beyah	2643	1856	761	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	2108	796	828	*	*	*	*	89	*	111	*	*	-	-	*	-
Filtu	281	101	180	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	319	133	*	-	*	-	-	*	-	-	*	-	-	-	-	-
Moyale	1509	562	550	*	*	*	*	60	*	111	*	*	-	-	*	-

TABLE 6.34.2: RURAL MEHER

Geographic Area	Holders Applying Fertilizer															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	15582	11062	3691	*	*	151	51	259	*	*	*	*	*	-	*	-
Shinele Zone	754	640	45	-	-	-	33	*	*	-	-	-	*	-	-	-
Shinele	78	72	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	675	569	38	-	-	-	33	*	*	-	-	-	*	-	-	-
Jijiga Zone	13434	9862	3133	-	*	*	*	180	-	*	*	-	-	-	*	-
Jijiga	9709	7029	2304	-	*	*	-	180	-	*	*	-	-	-	-	-
Teferi Ber	*	*	*	-	-	-	*	-	-	-	-	-	-	-	*	-
Kebri Beyah	2643	1856	761	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	1395	560	513	*	*	*	*	*	*	*	*	*	-	-	*	-
Filtu	127	*	66	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	302	116	*	-	*	-	-	*	-	-	*	-	-	-	-	-
Moyale	966	382	348	*	*	*	*	*	*	*	*	*	-	-	*	-

TABLE 6.34.3: RURAL BELG

Geographic Area	Holders Applying Fertilizers															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	1697	963	483	*	*	*	*	*	-	*	-	*	-	-	-	-
Shinele Zone	100	88	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	100	88	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Jijiga Zone	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Jijiga	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	1036	384	443	*	*	*	*	*	-	*	-	*	-	-	-	-
Filtu	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Moyale	841	308	325	*	*	*	*	*	-	*	-	*	-	-	-	-

TABLE 6.34.4: URBAN HOLDINGS

Geographic Area	Holders Applying Fertilizers														
	All Holders	Grades Completed by Holder													
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Above Grade 12
Somali Killil	508	202	115	-	-	15	13	21	47	9	17	*	22	-	37
Shinele Zone	60	48	12	-	-	-	-	-	-	-	-	-	-	-	-
Shinele	60	48	12	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	378	138	87	-	-	12	*	13	47	*	17	*	19	-	30
Jijiga	219	81	60	-	-	12	-	*	40	-	8	-	6	-	8
Teferi Ber	138	53	9	-	-	-	*	9	7	*	9	*	13	-	22
Kebri Beyah	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	70	16	*	-	-	*	*	*	-	*	-	-	*	-	*
Filtu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	70	16	*	-	-	*	*	*	-	*	-	-	*	-	*

TABLE 6.35: APPLICATION OF PESTICIDES BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11		Above Grade 12
															Grade 12	
Somali Killil	678	359	220	-	-	*	*	*	-	*	*	*	-	-	8	-
Shinele Zone	32	*	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Shinele	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	30	-	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Jijiga Zone	461	295	162	-	-	-	-	-	-	-	-	-	-	-	*	-
Jijiga	311	153	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	87	*	4	-	-	-	-	-	-	-	-	-	-	-	*	-
Kebri Beyah	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	185	62	*	-	-	*	*	*	-	*	*	*	-	-	*	-
Filtu	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	103	*	*	-	-	*	*	*	-	*	*	*	-	-	*	-
Moyale	*	*	-	-	-	-	-	-	-	*	-	*	-	-	-	-

TABLE 6.35.1: RURAL HOLDINGS

Geographic	Holders With Application of Pesticides	
		Grades Completed by Holder

Area	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11		Above
															Grade 12	Grade 12
Somali Killil	588	333	189	-	-	-	-	*	-	*	-	*	-	-	-	-
Shinele Zone	30	-	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	30	-	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Jijiga Zone	419	281	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga	284	145	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	139	*	*	-	-	-	-	-	-	*	-	*	-	-	-	-
Filtu	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Moyale	*	*	-	-	-	-	-	-	-	*	-	*	-	-	-	-

TABLE 6.35.2: RURAL MEHER

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate But not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Somali Killil	549	302	186	-	-	-	-	*	-	*	-	-	-	-	-	-
Shinele Zone	30	-	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	30	-	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Jijiga Zone	389	250	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga	284	145	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	131	*	*	-	-	-	-	-	-	*	-	-	-	-	-	-
Filtu	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Moyale	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-

TABLE 6.35.3: URBAN HOLDINGS



Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	<div>Grade 12</div>	Above Grade 12
Somali Killil	90	26	31	-	-	*	*	*	-	*	*	*	-	-	8	
Shinele Zone	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	
Shinele	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	
Jijiga Zone	42	14	23	-	-	-	-	-	-	-	-	-	-	-	*	
Jijiga	28	8	19	-	-	-	-	-	-	-	-	-	-	-	-	
Teferi Ber	14	6	4	-	-	-	-	-	-	-	-	-	-	-	*	
Kebri Beyah	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Liben Zone	46	10	*	-	-	*	*	*	-	*	*	*	-	-	*	
Filtu	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Dolo Odo	45	10	*	-	-	*	*	*	-	*	*	*	-	-	*	

TABLE 6.36: HOLDERS PARTICIPATING IN AGRICULTURAL EXTENSION BY EDUCATIONAL ATTAINMENT IN RURAL AREAS, FOR PRIVATE HOLDINGS



[illegible]

TABLE 6.36.3: RURAL BELG

Geographic Area	Holders Participating in Agricultural Extension											
	All Holders	Grades Completed by Holder										
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	
Somali Killil	121	*	*	-	-	-	-	-	*	-	-	-
Shinele Zone	*	*	-	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-
Erer	*	*	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	*	-	*	-	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	*	-	-	-	-	-	-	-	-	-
Liben Zone	*	*	-	-	-	-	-	-	*	-	-	-
Filtu	*	*	-	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	-	-	-	-	-	-	-	-	-	-
Moyale	*	*	-	-	-	-	-	-	*	-	-	-

TABLE 6.37: CROP AREA (HECTARES) DAMAGED BY CROP DISEASE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Total Area Damaged							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	19308	46	1899	4736	7216	4901	460	*
Shinele Zone	248	1	83	100	64	-	-	-
Shinele	31	*	14	*	*	-	-	-
Erer	218	1	70	95	53	-	-	-
Jijiga Zone	17630	12	1500	4205	6764	4697	401	*
Jijiga	7756	7	505	1644	3077	2379	*	-
Teferi Ber	5472	4	604	1452	2045	1283	*	-
Kebri Beyah	4402	*	390	1109	1643	1036	*	*
Liben Zone	1429	33	315	431	388	204	*	-
Filtu	616	*	150	200	210	*	-	-
Dolo Odo	407	*	89	136	89	38	*	-
Moyale	407	12	76	94	88	130	*	-

TABLE 6.37.1: RURAL MEHER

Geographic Area	Total Area Damaged							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	18953	25	1822	4625	7128	4846	457	*
Shinele Zone	228	1	77	93	57	-	-	-
Shinele	29	*	12	*	*	-	-	-
Erer	199	1	65	88	46	-	-	-
Jijiga Zone	17581	12	1489	4184	6748	4697	401	*
Jijiga	7756	7	505	1644	3077	2379	*	-
Teferi Ber	5423	4	593	1431	2028	1283	*	-
Kebri Beyah	4402	*	390	1109	1643	1036	*	*
Liben Zone	1144	12	257	348	323	148	*	-
Filtu	568	*	147	181	201	*	-	-
Dolo Odo	352	*	60	122	79	37	*	-
Moyale	224	8	49	44	43	76	*	-

TABLE 6.37.2: RURAL BELG

Geographic Area	Total Area Damaged							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	355	17	151	97	76	*	-	-
Shinele Zone	21	2	14	4	-	-	-	-
Shinele	*	*	*	-	-	-	-	-
Erer	19	2	13	4	-	-	-	-
Jijiga Zone	*	-	*	*	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	*	-	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	285	15	112	68	76	*	-	-
Filtu	*	-	*	*	*	-	-	-
Dolo Odo	55	7	37	*	*	-	-	-
Moyale	183	8	57	52	52	*	-	-

TABLE 6.38: CROP AREA (HECTARES) DAMAGED BY CROP DISEASE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Crop Disease							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	6624	*	471	1490	2570	1885	*	-
Shinele Zone	112	*	30	49	33	-	-	-
Shinele	*	-	*	*	-	-	-	-
Erer	110	*	29	48	33	-	-	-
Jijiga Zone	6213	2	371	1337	2464	1855	*	-
Jijiga	4674	*	273	883	1768	1605	*	-
Teferi Ber	1327	*	89	399	594	204	*	-
Kebri Beyah	211	-	*	54	102	*	-	-
Liben Zone	299	*	70	104	73	30	*	-
Filtu	*	*	*	32	*	-	-	-
Dolo Odo	151	*	49	49	35	*	*	-
Moyale	81	*	15	23	24	17	-	-

TABLE 6.38.1: RURAL MEHER

Geographic Area	Area Damaged by Crop Disease							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	6443	3	435	1419	2529	1868	*	-
Shinele Zone	99	*	26	44	29	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	99	*	26	44	29	-	-	-
Jijiga Zone	6179	2	369	1316	2452	1855	*	-
Jijiga	4674	*	273	883	1768	1605	*	-
Teferi Ber	1293	*	87	379	582	204	*	-
Kebri Beyah	211	-	*	54	102	*	-	-
Liben Zone	165	*	40	59	48	*	*	-
Filtu	25	-	*	*	*	-	-	-
Dolo Odo	123	*	31	39	34	*	*	-
Moyale	18	*	5	5	*	*	-	-

TABLE 6.38.2: RURAL BELG

Geographic Area	Area Damaged by Crop Disease							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	181	9	98	39	36	-	-	-
Shinele Zone	13	1	9	3	-	-	-	-
Shinele	*	*	*	-	-	-	-	-
Erer	11	1	8	3	-	-	-	-
Jijiga Zone	*	-	*	*	-	-	-	-

Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	*	-	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	134	8	72	18	36	-	-	-
Filtu	*	-	*	*	*	-	-	-
Dolo Odo	28	*	24	*	-	-	-	-
Moyale	64	*	32	*	17	-	-	-

TABLE 6.39: CROP AREA (HECTARES) DAMAGED BY FROST OR FLOODS AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Frost or Floods							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	604	4	83	181	226	*	*	-
Shinele Zone	9	-	6	3	*	-	-	-
Shinele	*	-	*	-	-	-	-	-
Erer	7	-	4	3	*	-	-	-
Jijiga Zone	476	*	29	*	201	*	*	-
Jijiga	*	*	*	*	*	-	-	-
Teferi Ber	*	*	4	*	*	*	*	-
Kebri Beyah	*	-	*	*	-	-	-	-
Liben Zone	119	*	48	24	25	*	*	-
Filtu	*	-	*	*	*	-	-	-
Dolo Odo	*	*	*	*	*	-	-	-
Moyale	52	*	*	*	*	*	*	-

TABLE 6.39.1: RURAL MEHER

Geographic Area	Area Damaged by Frost or Floods							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	552	*	73	172	216	*	*	-
Shinele Zone	7	-	5	2	*	-	-	-
Shinele	*	-	*	-	-	-	-	-
Erer	6	-	4	2	*	-	-	-
Jijiga Zone	476	*	29	*	201	*	*	-
Jijiga	*	*	*	*	*	-	-	-
Teferi Ber	*	*	4	*	*	*	*	-
Kebri Beyah	*	-	*	*	-	-	-	-
Liben Zone	69	*	*	*	15	-	-	-
Filtu	*	-	*	*	*	-	-	-
Dolo Odo	*	-	*	*	-	-	-	-
Moyale	*	*	*	*	*	-	-	-

TABLE 6.39.2: RURAL BELG

Geographic Area	Area Damaged by Frost or Floods							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	51	2	16	*	*	*	-	-
Shinele Zone	2	*	*	-	-	-	-	-
Shinele	*	*	-	-	-	-	-	-
Erer	*	*	*	-	-	-	-	-

Jijiga Zone	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	2	15	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	-	-	-	-
Moyale	*	*	*	*	*	*	-	-

TABLE 6.40: CROP AREA (HECTARES) DAMAGED BY LOCUST AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Locust							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	356	*	74	105	162	*	-	-
Shinele Zone	11	-	5	3	2	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	11	-	5	3	2	-	-	-
Jijiga Zone	155	-	14	74	63	*	-	-
Jijiga	*	-	14	*	*	*	-	-
Teferi Ber	*	-	-	*	-	-	-	-
Kebri Beyah	*	-	-	*	*	*	-	-
Liben Zone	*	*	*	*	*	*	-	-
Filtu	*	*	*	*	*	-	-	-
Dolo Odo	*	-	*	*	*	*	-	-
Moyale	22	*	*	*	*	*	-	-

TABLE 6.40.1: RURAL MEHER

Geographic Area	Area Damaged by Locust							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	339	*	72	100	158	*	-	-
Shinele Zone	8	-	4	*	2	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	8	-	4	*	2	-	-	-
Jijiga Zone	155	-	14	74	63	*	-	-
Jijiga	*	-	14	*	*	*	-	-
Teferi Ber	*	-	-	*	-	-	-	-
Kebri Beyah	*	-	-	*	*	*	-	-
Liben Zone	*	*	*	*	*	*	-	-
Filtu	*	*	*	*	*	-	-	-
Dolo Odo	*	-	*	*	-	-	-	-
Moyale	13	*	*	*	*	*	-	-



TABLE 6.40.2: RURAL BELG

Geographic Area	Area Damaged by Locust							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	17	*	6	*	*	-	-	-
Shinele Zone	2	*	2	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	2	*	2	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	15	-	5	*	*	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	*	*	*	-	-	-
Moyale	*	-	3	*	*	-	-	-

TABLE 6.41: CROP AREA (HECTARES) DAMAGED BY SHORTAGE OF RAIN AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Shortage of Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	86	*	*	40	17	*	-	-
Shinele Zone	9	-	4	*	*	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	9	-	4	*	*	-	-	-
Jijiga Zone	*	-	*	*	*	-	-	-
Jijiga	*	-	*	*	*	-	-	-
Teferi Ber	*	-	-	*	*	-	-	-
Kebri Beyah	*	-	-	*	-	-	-	-
Liben Zone	*	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	-	*	-	-
Moyale	*	*	*	*	*	*	-	-

TABLE 6.41.1: RURAL MEHER

Geographic Area	Area Damaged by Shortage of Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	60	-	*	33	*	*	-	-
Shinele Zone	9	-	4	*	*	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	9	-	4	*	*	-	-	-
Jijiga Zone	*	-	*	*	*	-	-	-
Jijiga	*	-	*	*	*	-	-	-
Teferi Ber	*	-	-	*	*	-	-	-

Kebri Beyah	*	-	-	*	-	-	-	-
Liben Zone	*	-	-	*	-	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	-	*	-	-
Moyale	-	-	-	-	-	-	-	-

TABLE 6.42: CROP AREA (HECTARES) DAMAGED BY TOO MUCH RAIN AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Too Much Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	249	*	45	54	*	*	-	-
Shinele Zone	45	*	16	18	10	-	-	-
Shinele	*	-	*	-	-	-	-	-
Erer	44	*	15	18	10	-	-	-
Jijiga Zone	*	-	*	17	*	*	-	-
Jijiga	*	-	*	17	*	*	-	-
Teferi Ber	*	-	-	-	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	44	*	14	*	*	*	-	-
Filtu	*	-	-	-	*	-	-	-
Dolo Odo	35	*	14	*	*	*	-	-
Moyale	*	*	*	*	*	-	-	-

TABLE 6.42.1: RURAL MEHER

Geographic Area	Area Damaged by Too Much Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	243	*	45	52	*	*	-	-
Shinele Zone	42	*	16	18	8	-	-	-
Shinele	*	-	*	-	-	-	-	-
Erer	42	*	15	18	8	-	-	-
Jijiga Zone	*	-	*	17	*	*	-	-
Jijiga	*	-	*	17	*	*	-	-
Teferi Ber	*	-	-	-	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	41	*	14	*	*	*	-	-
Filtu	*	-	-	-	*	-	-	-
Dolo Odo	32	*	14	*	*	*	-	-
Moyale	*	*	*	-	*	-	-	-

TABLE 6.42.2: RURAL BELG

Geographic Area	Area Damaged by Too Much Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	6	*	2	*	-	-	-	-
Shinele Zone	3	*	2	*	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	3	*	2	*	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	-	-	-	-
Moyale	*	-	*	*	-	-	-	-

TABLE 6.43: CROP AREA (HECTARES) DAMAGED BY INSECTS AND PESTS AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Insects and Pests							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	405	*	*	*	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	402	-	*	*	*	*	-	-
Jijiga	401	-	*	*	*	*	-	-
Teferi Ber	*	-	-	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	*	-	*	-	-	-
Moyale	*	*	-	*	-	-	-	-

TABLE 6.43.1: RURAL MEHER

Geographic Area	Area Damaged by Insects and Pests							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	404	*	*	*	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	402	-	*	*	*	*	-	-
Jijiga	401	-	*	*	*	*	-	-
Teferi Ber	*	-	-	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	*	-	*	*	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	-	*	-	-	-
Moyale	*	*	-	*	-	-	-	-

TABLE 6.44: CROP AREA (HECTARES) DAMAGED BY WEEDS AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	10860	20	1188	2753	3924	2684	*	*

Shinele Zone	63	*	23	24	16	-	-	-
Shinele	27	*	*	*	*	-	-	-
Erer	36	*	12	19	*	-	-	-
Jijiga Zone	10071	8	1039	2491	3738	2555	*	*
Jijiga	2021	*	153	463	847	553	-	-
Teferi Ber	3921	*	509	1016	1362	1015	*	-
Kebri Beyah	4128	*	377	1012	1529	987	*	*
Liben Zone	726	11	127	237	170	128	*	-
Filtu	321	*	63	131	*	*	-	-
Dolo Odo	187	*	17	57	45	20	*	-
Moyale	218	7	47	49	38	73	*	-

TABLE 6.44.1: RURAL MEHER

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	10798	18	1162	2738	3907	2682	*	*
Shinele Zone	62	*	22	23	16	-	-	-
Shinele	27	*	*	*	*	-	-	-
Erer	35	*	12	19	*	-	-	-
Jijiga Zone	10057	8	1028	2491	3734	2555	*	*
Jijiga	2021	*	153	463	847	553	-	-
Teferi Ber	3907	*	499	1016	1358	1015	*	-
Kebri Beyah	4128	*	377	1012	1529	987	*	*
Liben Zone	679	9	111	223	157	127	*	-
Filtu	318	*	62	131	*	*	-	-
Dolo Odo	181	*	15	56	*	20	*	-
Moyale	180	7	34	36	28	72	*	-

TABLE 6.44.2: RURAL BELG

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	62	*	25	26	*	-	-	-
Shinele Zone	*	*	*	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	*	*	*	-	-	-	-	-
Jijiga Zone	*	-	*	*	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	*	-	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	47	*	*	20	*	-	-	-
Filtu	*	-	*	*	-	-	-	-
Dolo Odo	6	*	*	*	-	-	-	-
Moyale	*	*	*	*	*	-	-	-

TABLE 6.45: CROP AREA (HECTARES) DAMAGED BY OTHER CAUSES AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Area Damaged by Other causes	
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Geographic Area	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	21	*	1	6	*	*	-	-
Shinele Zone	*	-	-	*	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	*	-	-	*	-	-	-	-
Jijiga Zone	10	-	-	*	*	*	-	-
Jijiga	*	-	-	*	*	-	-	-
Teferi Ber	*	-	-	*	*	*	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	10	*	1	*	*	*	-	-
Filtu	*	-	*	*	-	-	-	-
Dolo Odo	*	-	*	*	*	-	-	-
Moyale	*	*	*	*	*	*	-	-

TABLE 6.45.1: RURAL MEHER

Geographic Area	Area Damaged by Other Causes							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil								
Shinele Zone								
Shinele								
Erer	*	-	*	5	22	24	*	*
Jijiga Zone	46	-	*	*	*	*	*	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	*	-	*	*	*	*	*	-
Kebri Beyah	*	-	-	*	*	*	*	-
Liben Zone	*	-	*	*	9	*	-	*
Filtu	*	-	-	*	-	-	-	*
Dolo Odo	*	-	-	-	-	*	-	-
Moyale	15	-	*	*	9	5	-	-

TABLE 6.45.2: RURAL BELG

Geographic Area	Area Damaged by Other Causes							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Somali Killil	12	*	1	4	*	*	-	-
Shinele Zone	*	-	*	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	*	-	*	-	-	-	-	-
Jijiga Zone	*	-	-	*	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	*	-	-	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	10	*	1	3	*	*	-	-
Filtu	*	-	*	*	*	-	-	-
Dolo Odo	*	-	*	-	*	-	-	-
Moyale	*	*	1	*	*	*	-	-

TABLE 6.46:NUMBER OF AGRICULTURAL HOLDERS APPLYING IRRIGATION BY SOURCE OF WATER IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Source of Water			
	River	Lake	Pond	Others
<b>Somali Killil</b>	8624	6774	461	*
Shinele Zone	2015	1777	25	-
Shinele	345	*	-	-
Erer	1669	1638	25	-
Jijiga Zone	2969	*	261	*
Jijiga	*	*	*	*
Teferi Ber	86	*	*	-
Kebri Beyah	161	*	148	-
Liben Zone	3641	3403	176	*
Filtu	*	*	*	-
Dolo Odo	3409	3394	*	-
Moyale	146	-	91	*

TABLE 6.47:NUMBER OF AGRICULTURAL HOLDERS IMPROVING SOIL FERTILITY BY METHOD OF APPLICATION IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Method to Improve Soil Fertility	
	Crop Rotation	Burning of Soil
<b>Somali Killil</b>	45034	4141
Shinele Zone	785	129
Shinele	*	-
Erer	634	129
Jijiga Zone	41724	3342
Jijiga	30194	3152
Teferi Ber	8425	*
Kebri Beyah	3105	*
Liben Zone	2525	670
Filtu	412	69
Dolo Odo	951	*
Moyale	1163	*

TABLE 6.48: NUMBER OF HOLDERS BY REASON FOR NOT USING CHEMICAL FERTILIZER IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Reason for not Using Chemical Fertilizer						
	Do not Know	Too Expensive	Shortage of	Insufficient	No Credit Service	Suspicious of its Efficiency	Others
	The Advantage		Money	Supply			
<b>Somali Killil</b>	10247	1154	34203	32818	*	32	2333
Shinele Zone	443	221	770	710	*	32	300
Shinele	331	-	*	*	-	-	51
Erer	113	221	728	646	*	32	249

Jijiga Zone	5097	*	32432	29277	*	-	1928
Jijiga	811	*	24897	9562	*	-	608
Teferi Ber	3520	*	2937	12325	-	-	*
Kebri Beyah	767	*	4599	7390	*	-	577
Liben Zone	4707	*	1001	2831	*	-	105
Filtu	1432	-	154	496	-	-	*
Dolo Odo	1426	*	630	1253	*	-	*
Moyale	1849	*	216	1082	-	-	*

TABLE 6.49:NUMBER OF AGRICULTURAL HOLDERS BY PLOWING METHOD  
IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic  Area	Method of Plowing				
	Hand	Ox/Horse	Tractor	Hand Dung	Tractor
	Dung	Driven		and Ox/Horse Driven	and Ox/horse Driven
<b>Somali Killil</b>	11497	27595	3139	41885	3209
Shinele Zone	584	394	90	1552	*
Shinele	175	*	90	241	*
Erer	409	360	-	1311	*
Jijiga Zone	2232	24300	3049	35839	3160
Jijiga	1200	11590	*	20794	1425
Teferi Ber	*	9429	2238	4453	1226
Kebri Beyah	*	3282	*	10593	509
Liben Zone	8682	2901	-	4493	*
Filtu	811	1966	-	1092	-
Dolo Odo	3098	*	-	1084	-
Moyale	4773	552	-	2318	*

TABLE 6.50:NUMBER OF AGRICULTURAL HOLDERS BY METHOD OF  
SOIL CONSERVATION IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Method of Soil Conservation				
	Terracing	Water Catchment	Afforestation	Plowing along The Counter	Others
<b>Somali Killil</b>	13076	11526	*	14918	190
Shinele Zone	1141	1031	-	225	-
Shinele	229	*	-	*	-
Erer	912	892	-	196	-
Jijiga Zone	10974	9226	*	11152	*
Jijiga	9992	6993	-	5236	-
Teferi Ber	*	2090	*	3231	*
Kebri	*	*	-	2686	*
Liben Zone	961	1268	*	3541	146
Filtu	175	885	*	481	-
Dolo Odo	620	*	*	*	-
Moyale	165	*	-	2648	146

TABLE 6.51: NUMBER OF AGRICULTURAL HOLDERS PRACTICING EXTENSION PACKAGES BY TYPE IN  
RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Rain Shortage Areas	Rain Abundant Areas	Post Harvest Technology	Livestock Development	Economically Important Crops	Any two or more packages
<b>Somali Killil</b>	*	*	-	-	*	-
Shinele Zone	32	*	-	-	-	-
Shinele	-	-	-	-	-	-
Erer	32	*	-	-	-	-

Jijiga Zone	*	*	-	-	*	-
Jijiga	*	-	-	-	-	-
Teferi Ber	-	-	-	-	*	-
Kebri Beyah	-	*	-	-	-	-
Liben Zone	*	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	*	-	-	-	-	-
Moyale	-	-	-	-	-	-

TABLE 6.52: NUMBER OF HOLDERS BY REASON FOR NOT BEING COVERED BY EXTENSION PROGRAM IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Reason for not Being Covered by Extension Program					
	Do not Know the Advantage	Shortage of Money	Suspicious of Its Efficiency	Program not Available	Insufficient Arable Land	Others
Somali Killil	9625	12778	724	72433	*	1071
Shinele Zone	291	142	-	3789	-	45
Shinele	*	-	-	1486	-	*
Erer	278	142	-	2304	-	38
Jijiga Zone	4460	12542	724	51914	*	686
Jijiga	*	8530	*	26607	-	520
Teferi Ber	3101	*	-	13349	*	*
Kebri	*	1961	412	11958	-	112
Liben Zone	4874	*	-	16730	*	340
Filtu	1832	-	-	3435	-	*
Dolo Odo	674	*	-	6681	-	286
Moyale	2369	*	-	6614	*	*

TABLE 6.53: NUMBER OF AGRICULTURAL HOLDERS WHO USE SERVICES IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Service Type			
	Credit Service	%	Advisory Service	%
Somali Killil	*	*	459	100.00
Shinele Zone	-	-	49	10.68
Shinele	-	-	-	-
Erer	-	-	49	10.68
Jijiga Zone	*	*	*	*
Jijiga	*	*	*	*
Teferi Ber	*	*	*	*
Kebri	*	*	*	*
Liben Zone	-	-	*	*
Filtu	-	-	*	*
Dolo Odo	-	-	*	*
Moyale	-	-	*	*

TABLE 6.54: NUMBER OF HOLDERS BY SOURCE OF CHEMICAL FERTILIZERS AND COST OF CHEMICAL FERTILIZERS IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Number of Holders by Source of Chemical Fertilizer						Cost of Chemical Fertilizer (Birr/Quintal)	
	Government	Private Organization	Traders	Others	Do not buy	Not Reporting	DAP	UREA



Somali Killil	364	494	556	*	85427	2402	254.98	219.29
Shinele Zone	32	-	*	*	2562	*	254.98	219.29
Shinele	-	-	*	*	535	*	-	*
Erer	32	-	*	*	2027	*	254.98	219.29
Jijiga Zone	313	361	519	-	67055	500	254.98	219.29
Jijiga	*	283	477	-	34485	388	231.48	219.29
Teferi Ber	*	*	*	-	17833	*	254.98	219.29
Kebri	-	*	-	-	14736	*	-	-
Liben Zone	*	134	*	*	15810	1883	240.00	*
Filtu	-	23	*	-	3780	805	*	*
Dolo Odo	*	*	-	*	4459	678	240.00	-
Moyale	-	*	-	-	7571	400	-	-

TABLE 6.55: NUMBER OF HOLDERS WHO PRACTICE BELG FROM 1999/2000 TO 2001/02  
IN URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders who Practice Belg from 1999/2000 to 2001/02				
	Total	Female	%	Male	%
Somali Killil					
Shinele Zone					
Shinele					
Jijiga Zone	69	-	-	69	100
Jijiga	42	-	-	42	100
Teferi Ber	-	-	-	-	-
Kebri Beyah	42	-	-	42	100
Liben Zone	27	-	-	27	100
Filtu	15	-	-	15	100
Dolo Odo	13	-	-	13	100

TABLE 6.56: NUMBER OF HOLDERS PARTICIPATING IN CROP SPECIFIC EXTENSION PACKAGE AND  
AREA UNDER CROP SPECIFIC EXTENSION PACKAGE FOR RURAL AREAS IN MEHER SEASON

Geographic Area	All crops		Teff		Barley		Wheat	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Somali Killil	1346	473	-	-	*	*	309	64
Shinele Zone	97	16	-	-	-	-	-	-
Shinele	*	*	-	-	-	-	-	-
Erer	90	15	-	-	-	-	-	-
Jijiga Zone	1184	440	-	-	*	*	309	64
Jijiga	575	108	-	-	*	*	*	*
Teferi Ber	547	287	-	-	*	*	*	*
Kebri	61	*	-	-	*	*	*	*
Liben Zone	65	16	-	-	-	-	-	-
Filtu	*	6	-	-	-	-	-	-
Dolo Odo	*	*	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-

TABLE 6.56 CONTD.

Geographic Area	Maize		Sorghum		Rice		Field peas	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Somali Killil	833	137	738	214	-	-	-	-
Shinele Zone	*	*	67	14	-	-	-	-
Shinele	*	*	*	*	-	-	-	-
Erer	*	*	61	13	-	-	-	-
Jijiga Zone	765	129	641	196	-	-	-	-
Jijiga	336	*	*	*	-	-	-	-
Teferi Ber	381	82	446	160	-	-	-	-
Kebri	*	*	*	*	-	-	-	-
Liben Zone	*	*	*	*	-	-	-	-
Filtu	*	*	*	*	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-	-
Moyale	-	-	-	-	-	-	-	-

Annex - TABLE 6.1: AREA UNDER FARM MANAGEMENT PRACTICES WITH THEIR STANDAD ERRORS AND COEFFICIENT OF VARIATION IN RURAL AREAS FOR MEHER SEASON

Type of crop	Improved Seed Applied			Irrigation			Fertilizers Applied			Pesticide Applied		
	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V
TOTAL	68257	5062	7	892	169	19	2615	430	16	7311	1124	15
Grains Crops	59404	5009	8	810	160	20	1695	305	18	5885	980	17
Cereals	57041	4788	8	765	157	21	1631	297	18	5778	977	17
Teff	50	35	71	-	-	-	-	-	-	-	-	-
Barley	6512	1511	23	32	23	74	6	6	99	293	157	54
Wheat	8354	1204	14	114	46	41	75	43	57	815	229	28
Maize	20847	1593	8	381	77	20	854	203	24	2500	535	21
Sorghum	20824	1947	9	233	98	42	697	165	24	2145	450	21
Millet	22	17	78	-	-	-	-	-	-	1	1	93
Oats	433	122	28	7	7	101	-	-	-	24	15	63
Rice	-	-	-	-	-	-	-	-	-	-	-	-
Pulse	1347	180	13	44	15	33	49	22	46	99	22	22
Horse beans	15	9	64	-	-	-	-	-	-	-	-	-
Field peas	86	42	49	1	1	94	-	-	-	1	1	77
Haricot beans	678	86	13	38	14	37	48	22	47	90	21	23
Chick peas	407	131	32	2	1	74	1	1	95	8	8	99
Lentiles	84	31	37	3	2	67	-	-	-	-	-	-
Vetch	20	20	100	-	-	-	-	-	-	-	-	-
Soya	1	1	95	-	-	-	-	-	-	-	-	-
Fenugreek	57	22	39	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-	-	-	-
Oile seed	493	185	38	1	1	101	13	12	94	7	7	92
Nueg	4	4	100	-	-	-	-	-	-	-	-	-
Linseed	445	185	42	-	-	-	-	-	-	-	-	-
Ground nuts	30	20	66	1	1	101	-	-	-	7	7	92
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	15	12	82	-	-	-	13	12	94	-	-	-
Rapeseed.	-	-	-	-	-	-	-	-	-	-	-	-
Other Grain	523	206	39	-	-	-	2	2	94	-	-	96
Vegetables.	97	27	28	9	8	84	43	14	32	38	17	46
Lettuce	-	-	102	-	-	-	-	-	-	-	-	102
Cabbage	7	4	55	2	2	101	3	2	64	2	2	98
Kale	3	2	59	-	-	-	-	-	68	-	-	96
Tomatoes	60	24	39	8	8	99	29	11	39	31	17	54
Green pepper	13	6	49	-	-	-	10	6	60	3	2	55
Red paper	7	7	97	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-	-	-	-
Others	6	4	66	-	-	-	-	-	-	2	2	86
Root Crops	697	160	23	15	12	76	88	27	31	48	15	32
Beet root	5	3	69	2	2	101	4	3	71	2	2	99
Carrot	-	-	-	-	-	-	-	-	-	-	-	-
Onion	226	72	32	13	11	89	27	15	55	21	12	56
Potatoes	44	11	26	-	-	-	2	2	68	9	4	47
Garlic	269	99	37	-	-	-	4	4	98	10	6	65
Godere	-	-	-	-	-	-	-	-	-	-	-	-
Sweet potatoes	154	67	44	-	-	69	51	21	42	5	3	63
Others	-	-	-	-	-	-	-	-	-	-	-	-
Permanet crops	8059	695	9	57	42	74	789	142	18	1339	257	19
Fruit Crops	423	93	22	57	42	74	389	92	24	112	44	39
Avocado	-	-	-	-	-	-	-	-	-	-	-	-
Bannas	189	57	30	7	4	54	183	56	31	27	8	29
Guava(Zeytuna)	32	18	55	17	17	99	22	17	75	23	17	78
Lemons	34	5	13	-	-	95	32	4	14	11	3	27
Mangos	40	11	27	3	3	89	34	10	31	6	2	40
Oranges	55	7	14	6	4	72	54	7	14	19	5	28
Papayas	60	28	46	24	21	89	58	28	47	24	21	87
Pineapples	-	-	-	-	-	-	-	-	-	-	-	-
Others	13	7	54	-	-	-	5	1	24	4	2	52
Stimulant Crop	7624	678	9	-	-	-	398	106	27	1227	252	21
Chat	7596	680	9	-	-	-	376	99	26	1225	252	21
Coffee	27	18	65	-	-	-	23	17	77	1	1	63
Gesho.	-	-	102	-	-	-	-	-	-	-	-	-

Others	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	12	8	63	-	-	-	2	1	37	-	-	60
Enset	1	1	75	-	-	-	1	1	75	-	-	-
Sugar Cane	1	-	36	-	-	-	1	-	41	-	-	60
Others	10	8	75	-	-	-	1	-	69	-	-	-

Annex - TABLE 6.2: AREA UNDER FARM MANAGEMENT PRACTICES WITH THEIR STANDAD ERRORS AND COEFFICIENT OF VARIATION IN URBAN AREAS FOR MEHER SEASON

Type of crop	Improved Seed Applied			Irrigation			Feretilizer Applied			Pesticide Applied		
	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V
TOTAL	1834	96	5	79	9	12	189	43	23	309	41	13
Grains Crops	1750	93	5	74	9	12	160	39	24	277	36	13
Cereals	1684	84	5	73	9	13	119	22	19	239	23	10
Teff	3	1	24	-	-	-	-	-	-	2	-	20
Barley	120	9	7	1	1	79	4	-	9	16	2	14
Wheat	151	11	7	23	2	8	5	-	6	36	3	8
Maize	623	46	7	16	7	46	91	21	23	97	21	21
Sorghum	784	40	5	33	3	10	19	4	19	88	6	6
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	4	2	43	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-	-	-	-
Pulse	57	17	30	-	-	-	34	15	44	30	15	48
Horse beans	-	-	-	-	-	-	-	-	-	-	-	-
Field peas	3	-	14	-	-	-	-	-	-	1	-	5
Haricot beans	45	17	37	-	-	-	34	15	44	29	15	50
Chick peas	9	2	24	-	-	-	-	-	-	-	-	9
Lentiles	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-	-	-	-
Oile seed	8	5	62	1	-	49	7	5	75	8	5	65
Nueg	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	81	-	-	-	-	-	-	-	-	-
Ground nuts	1	-	44	1	-	49	-	-	-	1	-	44
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	7	5	75	-	-	-	7	5	75	7	5	75
Rapeseed.	-	-	-	-	-	-	-	-	-	-	-	-
Other Grain	-	-	-	-	-	-	-	-	-	-	-	-
Vegetables.	10	3	30	-	-	-	7	3	37	2	1	32
Lettuce	1	-	17	-	-	-	1	-	17	-	-	82
Cabbage	-	-	-	-	-	-	-	-	-	-	-	-
Kale	-	-	82	-	-	-	-	-	-	-	-	82
Tomatoes	8	3	37	-	-	-	6	3	46	1	1	42
Green pepper	1	-	22	-	-	-	-	-	21	-	-	23
Red paper	-	-	-	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	50	-	-	-	-	-	50	-	-	-
Others	-	-	79	-	-	-	-	-	-	-	-	-
Root Crops	17	6	33	3	3	78	12	6	47	7	5	67
Beet root	-	-	-	-	-	-	-	-	-	-	-	-
Carrot	-	-	66	-	-	-	-	-	66	-	-	84
Onion	13	6	43	3	3	78	11	5	52	7	5	69
Potatoes	1	-	39	-	-	-	-	-	15	-	-	82
Garlic	1	-	29	-	-	-	-	-	8	-	-	-
Godere	-	-	-	-	-	-	-	-	-	-	-	-
Sweet potatoes	2	-	14	-	-	-	-	-	2	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-
Permanet crops	57	6	10	2	1	58	11	2	15	23	2	11
Fruit Crops	15	4	29	2	1	58	5	2	29	4	1	40
Avocado	-	-	-	-	-	-	-	-	-	-	-	-
Bannas	2	1	47	1	1	84	2	1	47	2	1	56
Guava(Zeytuna)	9	4	45	-	-	8	1	-	30	-	-	68
Lemons	1	-	38	-	-	-	-	-	46	-	-	58
Mangos	2	1	37	-	-	8	2	1	42	1	1	59
Oranges	-	-	-	-	-	-	-	-	-	-	-	-
Papayas	1	-	43	-	-	-	1	-	62	-	-	75
Pineapples	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	8	-	-	-	-	-	8	-	-	9
Stimulant Crop	42	4	9	-	-	-	5	-	8	20	2	10
Chat	40	4	10	-	-	-	3	-	9	18	2	11
Coffee	2	-	6	-	-	-	2	-	6	1	-	9
Gesho.	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-

[illegible]

