

## **CHAPTER VI**

### **FARM MANAGEMENT PRACTICES**

#### **1. INTRODUCTION**

Agriculture and allied activities have been described as the main sources of much of the raw materials, investment capital, foreign exchange and labor needed for the economic growth. In this regard, improving the performance of the agriculture sector is of critical importance for fast development of the country's economy.

However, agriculture in Ethiopia is characterized by its low productivity. The reason for this is the use of limited modern agricultural techniques and traditional practices as well as the declining soil fertility due to continuous cropping. Among traditional practices used to increase the crop productivity, the most widely used practice has been and still is maintaining soil fertility through long fallow periods and the use of dung and crop residue. These gradually become impossible due to the prevailing rapid and uncontrolled population growth, which led to the reduction of the fallow lands and fuel wood deficit in the country. The other practice to increase crop production was based on expanding cultivable cropland. However, this scheme has been in practice for a long time and as a result of high population growth in the country most of the highlands suitable for cropping has already been exhausted.

To this end, 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 through 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 Ethiopia. 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 on the inputs applied and the irrigated cropland area and number of holders who applied farm inputs. Also, data are presented at national and regional levels in Statistical Tables 6.1 – 6.64. Moreover, Estimates, Standard Errors (S.E.) and Coefficients of Variation (C.V.) are given in Annex 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 at national and regional levels. Agricultural holders in the sampled households were asked whether they have applied or have not agricultural inputs on their fields 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 only. This helped to estimate area under crop, irrigated land, fertilizers, pesticides and improved seeds used during the agricultural year. Following data on area under agricultural farm inputs are briefly discussed.

The census data show that the country as a whole predominantly produces grain crops that accounted for about 90% of the area cultivated under all crops (Summary Table VI.2). On the other hand, vegetables, root crops and permanent crops are not widely grown as grains in the country in terms of both area coverage and production obtained. 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. In Ethiopia, fertilizers are relatively widely promoted and adequately supplied relative to other agricultural inputs. Therefore, it is found that application of fertilizers had high coverage of area under crops among different types of agricultural inputs that were applied. Moreover, the census data indicate that vast majority of agricultural holders in the country as a whole have used improved seeds, practiced irrigation and applied pesticides but in a much smaller extent.

## 2.1 Fertilized Cropland Areas

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).

In Ethiopia, fertilizers were applied on 3,817.9 thousand hectares (38.6%) of the total cultivated cropland area. Of this total fertilized cropland area, the share of rural and urban areas was found to be 98.4% and 1.6%, respectively. Moreover, the proportion of total fertilized cropland in rural areas for Meher season was 89.8% as compared to only 8.6% for Belg season. Regarding private holdings in urban areas, data are collected and presented only for Meher season. For details, refer to Summary Table VI.1 and Fig VI.1.

Furthermore, out of the total fertilized cropland areas, 80.6% were under cereals, 5.5% under pulses, 1.3% under oil seeds, 4.3% under root crops, 2.4% under stimulant crops and the remaining 5.9% were under other crops. Most of the fertilized cropland areas in the country were allotted to cereals in both rural and urban areas (See Summary Table VI.1)

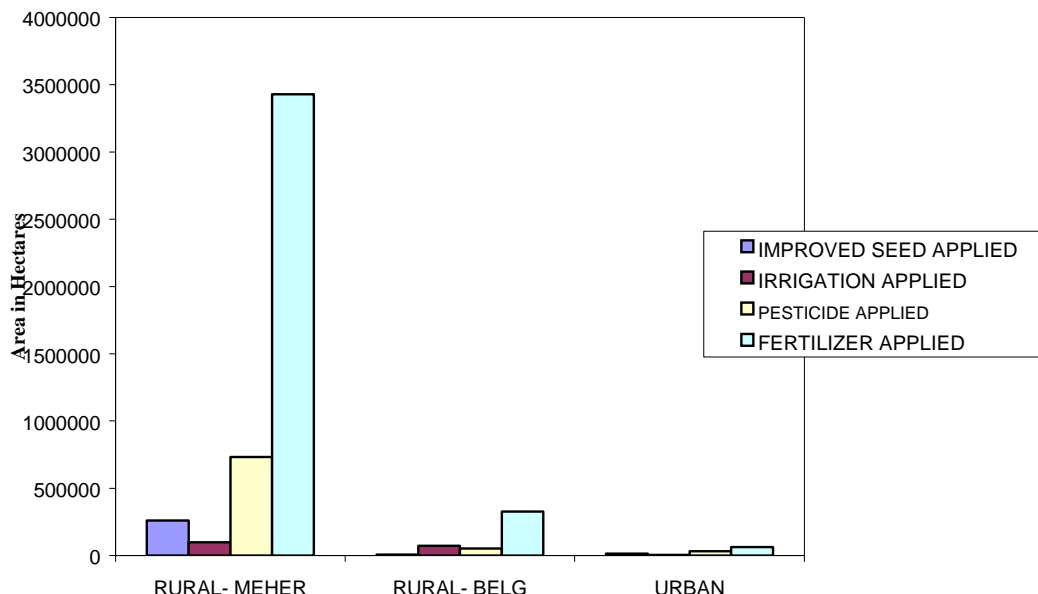
With regard to a specific crop, Teff is the most important fertilized crop that comprised an area of 946 thousand hectares. This is followed by maize and wheat covering 778 thousand hectares and 618 thousand hectares, respectively. The other most important fertilized crop is barley taking up 382 thousand hectares. For details, refer to Summary Table VI.2.

The result of the census data at country level indicate that Oromia Region has relatively the highest share from the total cropland areas with application of fertilizers (49.2%). The next highest share was observed in Amhara Region accounted for about 28.0 percent. Moreover, it is also seen that the total cropland areas under fertilizers was 14.7% in S.N.N.P. Region and 6.5% in Tigray Region, while each remaining region constituted less than one percent of the total fertilized cropland area in the country. Furthermore, the application of fertilizers in Meher season constituted relatively higher proportion for all the regions as compared to Belg season. (For details, refer to Summary Table VI.3).

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

Data Item	Area in Hectares									
	Total	Grains				Vegetables	Root Crops	Permanent Crops		
		Cereals	Pulses	Oilseeds	Others			Fruits	Stimulant	Other
Total Area										
Rural and Urban..	9892611	7187427	1178209	438171	47835	100272	272931	42463	373281	252025
Rural.....	9731322	7074876	1166907	430245	46803	98262	269478	40076	358381	246294
Meher .....	8699882	6370106	1016787	426130	41202	84029	116877	40076	358381	246294
Belg .....	1031441	704770	150120	4116	5601	14233	152602	*	*	*
Urban (Meher) ....	161289	112551	11302	7926	1032	2010	3453	2386	14900	5731
Improved Seeds										
Rural and Urban..	280554	254938	5924	1768	940	705	1628	620	13686	345
Percent..	100.00	90.87	2.11	0.63	0.34	0.25	0.58	0.22	4.88	0.12
Rural.....	267672	244750	5669	1643	926	532	1312	454	12086	302
Percent..	95.41	91.44	2.12	0.61	0.35	0.20	0.49	0.17	4.52	0.11
Meher .....	260614	239029	5188	1639	856	278	783	454	12086	302
Percent..	92.89	91.72	1.99	0.63	0.33	0.11	0.30	0.17	4.64	0.12
Belg .....	7059	5721	481	*	*	254	529	*	*	*
Percent..	2.52	81.05	6.81	*	*	3.60	7.49	*	*	*
Urban (Meher) ....	12882	10188	256	124	*	174	*	167	1600	43
Percent..	4.59	79.09	1.99	0.96	*	1.35	*	1.30	12.42	0.33
Irrigation										
Rural and Urban..	175736	93615	9896	726	2285	6918	28937	6415	22147	4798
Percent..	100.00	53.27	5.63	0.41	1.30	3.94	16.47	3.65	12.60	2.73
Rural.....	170240	91386	9758	711	2270	6398	28161	5865	21385	4306
Percent..	96.87	53.68	5.73	0.42	1.33	3.76	16.54	3.45	12.56	2.53
Meher .....	98702	49824	4231	675	1793	3200	7423	5865	21385	4306
Percent..	56.16	50.48	4.29	0.68	1.82	3.24	7.52	5.94	21.67	4.36
Belg .....	71538	41561	5527	37	477	3198	20738	*	*	*
Percent..	40.71	58.10	7.73	0.05	0.67	4.47	28.99	*	*	*
Urban (Meher) ....	5496	2229	138	15	15	520	776	550	762	492
Percent..	3.13	40.56	2.51	0.27	0.27	9.46	14.12	10.01	13.86	8.95
Fertilizer										
Rural and Urban..	3817932	3075651	210559	50789	7261	51186	163280	11335	92743	155129
Percent..	100.00	80.56	5.52	1.33	0.19	1.34	4.28	0.30	2.43	4.06
Rural.....	3755178	3023838	208325	50396	7113	50158	161575	10615	90475	152684
Percent..	98.36	80.52	5.55	1.34	0.19	1.34	4.30	0.28	2.41	4.07
Meher .....	3428876	2842279	172754	50134	6659	42375	60901	10615	90475	152684
Percent..	89.81	82.89	5.04	1.46	0.19	1.24	1.78	0.31	2.64	4.45
Belg .....	326302	181559	35571	261	455	7783	100673	*	*	*
Percent..	8.55	55.64	10.90	0.08	0.06	2.39	30.85	*	*	*
Urban (Meher) ....	62755	51813	2235	394	147	1028	1705	720	2268	2445
Percent..	1.64	82.56	3.56	0.63	0.23	1.64	2.72	1.15	3.61	3.90
Pesticides										
Rural and Urban..	814314	776512	14121	3068	1102	3210	9124	255	6300	623
Percent..	100.00	95.36	1.73	0.38	0.14	0.39	1.12	0.03	0.77	0.08
Rural.....	782364	746949	13594	2779	1057	858	8459	165	5904	598
Percent..	96.08	95.47	1.74	0.36	0.14	0.37	1.08	0.02	0.75	0.08
Meher .....	730999	704006	11880	2752	910	1909	2876	165	5904	598
Percent..	89.77	96.31	1.63	0.38	0.12	0.26	0.39	0.02	0.81	0.08
Belg .....	51365	42944	1714	*	147	950	5583	*	*	*
Percent..	6.31	83.61	3.34	*	0.29	1.85	10.87	*	*	*
Urban (Meher) ....	31950	29562	527	288	45	352	665	90	397	24
Percent..	3.92	92.53	1.65	0.90	0.14	1.10	2.08	0.28	1.24	0.08

**Fig VI.1 Area under Improved Farm Management Practices in Rural and Urban Areas, for Private Holdings**



## 2.2 Cropland Areas that are treated with Pesticides

Pesticides are chemicals that are used for the control or 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 areas that are treated with pesticides at country level were estimated to be 814.3 thousand hectares. This indicates that only 8.2% 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 96.1% and 3.9%, 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 country for Meher season was 89.8 percent as compared to only 6.3 percent for the Belg season.

Furthermore, most of the pesticide applied land areas in the country were under cereal crops (about 95.4%), whereas only 1.7% of the fields under pulses were treated with pesticides. On the other hand, land areas of the remaining crops treated with pesticides were 2.9%. Out of all cropland areas on which pesticides are applied, Teff constituted the highest share at 314.7 thousand hectares followed by wheat at 306.4 thousand hectares. For details, refer to Summary Tables VI.1 and VI.2.

Inputs applied areas by region for private holdings in rural and urban areas of the country are presented in Summary Table VI.3. As can be seen from this table, the total cropland area under pesticides was the highest in Oromia Region at 633.6 thousand hectares (77.8%). It is also observed that the percent of cropland areas under pesticides in S.N.N.P., Amhara and Tigray Region was 14.6, 5.9, and 1.1 percent, respectively. Moreover, of the total cropland area on which pesticides are applied, each of the remaining region in the country constituted less than one percent.

### **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 at country level was estimated at 9,892.6 thousand hectares. Of this total, only 280.6 thousand hectares (2.8%) was sown with improved variety of seeds. The share of rural and urban areas was found to be 95.4 percent and 4.6 percent of the total cropland areas on which improved seeds are used, respectively. Like other inputs, the private holdings in the rural areas of the country 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 country was limited in scale. Moreover, the share of Belg season to the total improved seed applied cropland area was 2.5% (For details, refer to 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 90.9%, 2.1% and 4.9% of the total area under improved seeds was reported to be under cereals, pulses and stimulant crops, respectively. While, land area under other crops on which improved seeds are applied constitute the remaining 2.1 percent. 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. Out of the total cropland area on which improved seeds are applied, maize constituted the highest share at 211.9 thousand hectares followed by wheat at 21.7 thousand hectares and coffee at 13.7 thousand hectares.

As can be seen in Summary Table VI.3 at country level the total cropland area under improved seeds shows variation among the regions. Thus, Oromia Region (56.3%) and Amhara Region (31.0%) constituted the highest share from the total cropland area under improved seeds. It is also observed that the percent of cropland area under improved seeds in S.N.N.P., Tigray, and Benishangul-Gumuz Region was about 7.5, 2.6, 1.3 percent, respectively. On the other hand, the percent of improved seed applied cropland areas under each of the remaining region was less than one percent.

## **2.4 Cropland Areas Under Irrigation**

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 a practice of irrigation. The census data show that the cropland areas that are actually irrigated was only 175.7 thousand hectares and this accounted for about 1.8% of the total cropland areas in the country. Of the total irrigated cropland areas, the share of the rural and urban areas was found to be 96.9% and 3.1%, respectively. Thus, there is large difference in the size of the total irrigated cropland area between rural and urban areas. Moreover, of the total irrigated cropland in rural areas, the Meher season constituted 56.2 percent compared to 40.7 percent for Belg season.

As indicated in Summary Table VI.1, out of the total irrigated cropland areas in the country 53.3% were under cereals, 5.6% under pulses, 3.9% under vegetables, 16.5% under root crops, 3.7% under fruits, 12.6% under stimulant crops and 2.7% under other permanent crops. In both rural and urban areas of Ethiopia, the proportion of cereals, root crops and stimulant crops under irrigation were the highest as compared to other crops. With regard to specific crops, 54 thousand hectares for maize and 13 thousand hectares each for sorghum and Teff reported the largest areas of land under irrigation (For details, refer to Summary Tables VI.1 and VI.2). Moreover, the census data in Summary Table VI.3 indicate that in the country irrigated cropland area was relatively highest in Oromia Region (36.1%) and Amhara Region (32.2%) followed by S.N.N.P.R. (12.1%) and Tigray Region (10.8%). It is also observed that areas of land under irrigation practice were 5.0 and 1.8 percent for Afar

and Somali Region, respectively. On the other hand, the percent of irrigated cropland area under each of the remaining region was less than one percent

SUMMARY TABLE VI.2: Area Under Agricultural Inputs and Irrigation Practices by Season and Regions in Rural and Urban Areas, for Private Holdings

Items	Area under Agricultural Inputs and Irrigation in Hectares							
	Rural and Urban	%	Rural				Urban	%
			Meher	Belg	Both	%		
National								
Irrigation	175736	100	98702	71537	170240	100	5496	100
Imroved seeds	280554	100	260614	7059	267672	100	12882	100
Pesticides	814314	100	730999	51365	782364	100	31950	100
Fertilizers	3817932	100	3428876	326302	3755178	100	62755	100
Tigray								
Irrigation	19050	10.84	10633	7790	18423	10.82	627	11.41
Imroved seeds	7265	2.59	6295	499	6794	2.54	470	3.65
Pesticides	9065	1.11	8224	160	8383	1.07	682	2.13
Fertilizers	249588	6.54	241649	4247	245896	6.55	3692	5.88
Afar								
Irrigation	8739	4.97	7399	733	8132	4.78	607	11.04
Imroved seeds	1159	0.41	946	*	1090	0.41	69	0.54
Pesticides	1076	0.13	935	*	954	0.12	121	0.38
Fertilizers	1329	0.03	1057	152	1210	0.03	119	0.19
Amhara								
Irrigation	56596	32.21	23582	32129	55710	32.72	886	16.12
Imroved seeds	87033	31.02	84839	563	85403	31.91	1630	12.65
Pesticides	47930	5.89	44843	1876	46720	5.97	1211	3.79
Fertilizers	1067390	27.96	995839	65280	1061119	28.26	6271	9.99
Oromia								
Irrigation	63423	36.09	37871	23557	61428	36.08	1995	36.30
Imroved seeds	158037	56.33	145645	3924	149568	55.88	8469	65.74
Pesticides	633646	77.81	579480	29384	608864	77.82	24782	77.56
Fertilizers	1876828	49.16	1705012	132700	1837712	48.94	39116	62.33
Somali								
Irrigation	3101	1.76	2615	296	2911	1.71	189	3.44
Imroved seeds	1000	0.36	892	29	921	0.34	79	0.61
Pesticides	273	0.03	152	*	156	0.02	117	0.37
Fertilizers	8321	0.22	7311	701	8012	0.21	309	0.49
Benishangul-Gumuz								
Irrigation	1225	0.70	726	456	1182	0.69	43	0.78
Imroved seeds	3554	1.27	3265	*	3302	1.23	252	1.96
Pesticides	1269	0.16	1044	30	1074	0.14	195	0.61
Fertilizers	23687	0.62	22730	331	23061	0.61	626	1.00
S.N.N.P.R								
Irrigation	21230	12.08	14420	6302	20723	12.17	508	9.24
Imroved seeds	21053	7.50	17842	1809	19651	7.34	1402	10.88
Pesticides	118915	14.60	95461	19835	115296	14.74	3620	11.33
Fertilizers	562469	14.73	430364	122237	552601	14.72	9868	15.72
Gambella								
Irrigation	17	0.01	*	*	*	*	*	*
Imroved seeds	492	0.18	421	21	442	0.17	50	0.39
Pesticides	117	0.01	84	24	108	0.01	10	0.03
Fertilizers	648	0.02	593	43	636	0.02	*	*
Harari								
Irrigation	315	0.18	246	*	290	0.17	24	0.44
Imroved seeds	89	0.03	76	*	76	0.03	13	0.10
Pesticides	169	0.02	117	*	120	0.02	*	*
Fertilizers	5298	0.14	4768	356	5124	0.14	174	0.28
Addis Ababa								
Irrigation	*	*	15	24	39	0.02	*	*
Imroved seeds	719	0.26	285	7	292	0.11	427	3.31
Pesticides	1779	0.22	623	*	633	0.08	1145	3.58
Fertilizers	19400	0.51	16834	27	16861	0.45	2539	4.05
Dire Dawa								
Irrigation	1487	0.85	1188	205	1393	0.82	95	1.73
Imroved seeds	153	0.05	106	*	131	0.05	22	0.17
Pesticides	75	0.01	*	20	57	0.01	18	0.06
Fertilizers	2974	0.08	2719	227	2947	0.08	28	0.04

**SUMMARY TABLE VI.3: 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 .....	9892611	280554	2.84	175736	1.78	3817932	38.59	814314	8.23
Grain Crops .....	8851641	263569	2.98	106522	1.2	3344260	37.78	794802	8.98
Cereals .....	7187427	254938	3.55	93615	1.3	3075651	42.79	776512	10.8
Teff .....	1895950	11970	0.63	12447	0.66	946105	49.9	314708	16.6
Barley .....	965677	3707	0.38	8016	0.83	382039	39.56	87594	9.07
Wheat .....	1089810	21707	1.99	4750	0.44	618039	56.71	306398	28.11
Maize .....	1702036	211863	12.45	53838	3.16	778339	45.73	32933	1.93
Sorghum .....	1195200	4465	0.37	12778	1.07	201981	16.9	20189	1.69
Finger millet .....	286094	935	0.33	535	0.19	138180	48.3	10514	3.68
Oats ('Aja') .....	44186	104	0.24	791	1.79	10147	22.96	3990	9.03
Rice .....	8473	187	2.21	*	*	820	9.68	186	2.2
Pulses .....	1178209	5924	0.5	9896	0.84	210559	17.87	14121	1.2
Horse/Faba .....	374997	1433	0.38	938	0.25	97585	26.02	3765	1
Field peas .....	205683	778	0.38	501	0.24	35591	17.3	5479	2.66
Haricot beans .....	209535	1600	0.76	1816	0.87	53385	25.48	2083	0.99
Chick peas .....	196440	1355	0.69	3115	1.59	11291	5.75	1213	0.62
Lentils .....	76107	292	0.38	1172	1.54	4733	6.22	451	0.59
Vetch/Grass .....	86016	270	0.31	1354	1.57	3306	3.84	853	0.99
Soya .....	1896	153	8.07	*	*	944	49.79	43	2.27
Fenugreek .....	20239	44	0.22	957	4.73	2792	13.8	230	1.14
Gibto .....	7295	-	-	*	*	933	12.79	*	*
Oil Seeds .....	438171	1768	0.4	726	0.17	50789	11.59	3067	0.7
Neug .....	234201	443	0.19	297	0.13	24827	10.6	394	0.17
Linseed .....	103622	296	0.29	77	0.07	7750	7.48	2102	2.03
Ground nuts .....	16928	85	0.5	86	0.51	3448	20.37	78	0.46
Sufflower .....	5562	257	4.62	43	0.77	797	14.33	25	0.45
Sesame .....	62748	359	0.57	168	0.27	4004	6.38	339	0.54
Rapeseed .....	15110	327	2.16	55	0.36	9963	65.94	129	0.85
Other Grains .....	47834	940	1.97	2285	4.78	7261	15.18	1102	2.3
Vegetables .....	100272	705	0.7	6918	6.9	51186	51.05	3210	3.2
Lettuce .....	248	30	12.1	179	72.18	180	72.58	30	12.1
Head cabbage .....	991	66	6.66	548	55.3	586	59.13	130	13.12
Kale .....	24928	76	0.3	557	2.23	14136	56.71	412	1.65
Tomatoes .....	3301	282	8.54	2211	66.98	2061	62.44	1042	31.57
Green peppers .....	4673	40	0.86	1035	22.15	2404	51.44	118	2.53
Red peppers .....	56203	132	0.23	2163	3.85	27321	48.61	1435	2.55
Swiss chard .....	241	64	26.56	127	52.7	146	60.58	5	2.07
Others .....	9687	16	0.17	98	1.01	4352	44.93	37	0.38
Root Crops .....	272931	1628	0.6	28937	10.6	163280	59.82	9124	3.34
Beet root .....	687	74	10.77	261	37.99	420	61.14	11	1.6
Carrot .....	1038	*	*	483	46.53	759	73.12	17	1.64
Onions .....	20444	714	3.49	7490	36.64	11392	55.72	2296	11.23
Potatoes .....	164146	320	0.19	17441	10.63	110993	67.62	5328	3.25
Garlic .....	6042	17	0.28	752	12.45	3310	54.78	41	0.68
Taro .....	26506	30	0.11	99	0.37	10472	39.51	230	0.87
Sweet potatoes .....	46891	210	0.45	1966	4.19	23355	49.81	1092	2.33
Others .....	7176	4	0.06	445	6.2	2579	35.94	108	1.51
Permanent Crops .....	667768	14651	2.19	33359	5	259207	38.82	7178	1.07
Fruit Crops .....	42463	620	1.46	6415	15.11	11335	26.69	255	0.6
Avocado .....	2919	101	3.46	138	4.73	880	30.15	2	0.07
Bananas .....	21938	133	0.61	3849	17.54	5588	25.47	36	0.16
Guava .....	1427	103	7.22	363	25.44	444	31.11	6	0.42
Lemons .....	796	12	1.51	235	29.52	214	26.88	12	1.51
Mangoes .....	4001	77	1.92	354	8.85	1195	29.87	11	0.27
Oranges .....	2559	54	2.11	477	18.64	864	33.76	31	1.21
Papayas .....	2983	100	3.35	571	19.14	872	29.23	60	2.01
Pineapples .....	172	*	*	*	*	9	5.23	-	-
Others .....	5667	40	0.71	426	7.52	1269	22.39	*	*
Stimulant Crops .....	373281	13686	3.67	22147	5.93	92743	24.85	6300	1.69
Chat .....	97604	-	-	11176	11.45	41115	42.12	4392	4.5
Coffee .....	256545	13678	5.33	8810	3.43	42320	16.5	1717	0.67
Hops .....	19098	8	0.04	2161	11.32	9292	48.65	191	1
Others .....	*	-	-	*	*	16	*	-	-
Other Permanent .....	252025	345	0.14	4798	1.9	155129	61.55	623	0.25
Enset .....	237959	283	0.12	1217	0.51	150978	63.45	523	0.22
Sugar Cane .....	13008	37	0.28	3517	27.04	3750	28.83	89	0.68
Others .....	1058	24	2.27	64	6.05	400	37.81	11	1.04

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

In 2001/02 Agricultural Sample Enumeration, the total number of holders applying fertilizers in Ethiopia is estimated to be about 7,589.5 thousands. Of these total private holders, 98.7% were in rural and 1.3% in urban areas. The application of fertilizers in Meher and Belg seasons for private holdings in rural areas shows a great variation, that is, 7,178.6 thousand holders applied fertilizers in Meher season while 2,499.0 thousand holders applied in Belg season (See Summary Tables VI.4 and VI.5).

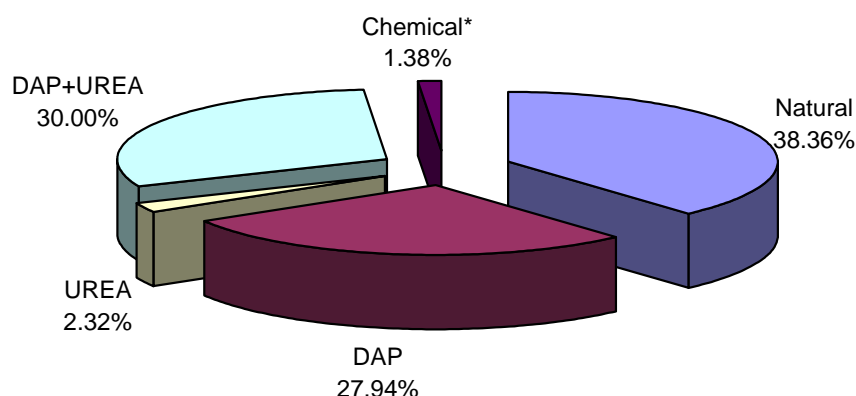
With regard to the type of fertilizers applied, the great majority of holders applied natural fertilizers (6,430.6 thousands). When we consider to the utilization of commercial fertilizers, the data shows that 2,046.4 thousand of the holders applied a mixture of DAP and UREA followed by DAP only (1818.9 thousands) and UREA only (340.6 thousands). The application of DAP, UREA and a mixture of DAP and UREA in Belg season was reported by 406.7, 34.6, and 102.6 thousand holders, respectively. In urban areas for private holdings, a total of 47.7 thousand holders applied natural fertilizers and 68.2 thousand holders applied chemical fertilizers.

Among the types of fertilizers used in the country, natural fertilizers was applied in larger cultivated cropland area, which is estimated to be 1,464.7 thousand hectares (that is, 38.4% of the fertilized cropland area). Next to natural fertilizers, a mixture of DAP and UREA, and DAP only also covered considerable amount of cropland area, which comprised 30% and 27.9% of the total fertilized cropland area, respectively. For details, refer to Fig VI.2 and Summary Table VI.4.

Furthermore, the data in Summary Table VI.4 indicates that the total quantity of chemical fertilizers applied by holders in the rural areas of the country to be 2,278.5 thousand quintals, of which, the share of the DAP and UREA mixture was the highest accounting for 63.3 percent of the total quantity of chemical fertilizers applied. This is followed by the application of only DAP, accounting for about 34.2 percent (For details, refer to Fig VI.3 and Summary Table VI.4).

Total amount of fertilizers used in the country by region is presented in Summary Table VI.7. The data in the table shows that the highest quantity of chemical fertilizers application was reported in Oromia Region (53.9%) followed by Amhara Region (29.9%). Moreover, the application in Tigray and S.N.N.P. Region was 5.8 and 8.5 percent, respectively. On the other hand, quantity of chemical fertilizers applied under each of the remaining region was less than one percent.

**Fig Vi.2 Fertilizers Applied on Cropland Area by Type in Rural and Urban Areas, for Private Holdings**

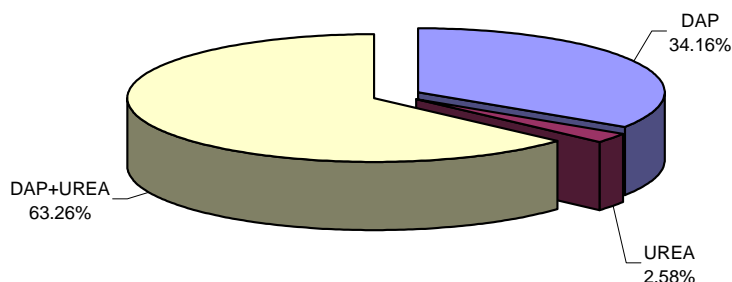


\* Cropland area under chemical fertilizers by percent of the total fertilized cropland is only for urban areas

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

According to the census findings, 6,430.6 thousand holders in rural and urban areas of Ethiopia applied natural fertilizers on 1464.7 thousand hectares of cropland (comprising 38.4% of the total fertilized cropland area). Of the total cropland area on which natural fertilizers are applied, the share of Meher and Belg seasons in rural areas of the country was 31.8 and 6.3 percent, respectively. Moreover, of the total land area on which natural fertilizers are applied, 62.0% was under cereals, 8.8% under pulses, and 2.2% under oilseeds, 7.6% under root crops, 5.5% under stimulant crops and 10.5% was under other permanent crops. For details, refer to Summary Table VI.4.

**Fig.VI.3 Quantity of Fertilizers Applied by Type in Rural Areas, for Private Holdings.**



### 3.2 Application of DAP in the Rural Areas

As illustrated in Summary Table VI.4, 1,818.9 thousand holders in rural areas of the country have applied DAP on 1,066.6 thousand hectares, which is 27.9% of the total fertilized land area. The application of DAP varied markedly from one group of crops to another, i.e., 89.2% of the total DAP was applied for cereals, 5.6% for pulses and 3.2% for root crops. Variations with respect to specific crops are also considerable, i.e., relatively higher for Teff at 319.9 thousand hectares and wheat at 272.1 thousand hectares (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 778.4 thousand quintals, which is 34.2% of the total quantity of chemical fertilizers applied. In general, the quantity of DAP applied was the highest for cereals which was 687.7 thousand quintals followed by pulses and root crops that amounted to 39.2 and 36.0 thousand quintals, respectively.

### 3.3 Application of UREA in the Rural Areas

There were 340.6 thousand holders in rural areas of the country that applied UREA, and the cropland areas applied occupy 88.6 thousand hectares. This consists of only 2.3% of the total fertilizers applied. Out of the total area on which UREA was applied, it is reported that 83.5 % was under cereals, 2.8% under pulses, 1.4% under oil seeds, 4.8% under vegetables,

3.3% under root crops and 3.5% was under stimulant crops. These values indicate that UREA was applied in a high proportion of area under cereals relative to other group of crops. Among all crops, the largest UREA applied area was under Teff at 36.8 thousand hectares followed by maize and wheat at 11.4 and 10.9 thousand hectares, respectively. Moreover, the data in the table shows that the total quantity of UREA applied was about 58.7 thousand quintals in which the highest amount was applied for cereals at 47.1 thousand quintals (For details, refer to Summary Tables VI.4 and VI.5).

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

The census findings depicts the fact that quite significant number of holders in the country have applied a mixture of DAP and UREA on their crop fields. As presented in Summary Table VI.4, there were 2,046.4 thousand holders in rural areas who applied a mixture of DAP and UREA on 1,145.6 thousand hectares, and this accounts for 30.0% of the total area on which fertilizers were applied. The application of a mixture of DAP and UREA to cereals was on 1,093.9 thousand hectares (95.5%). It was observed that the application of a mixture of UREA and DAP is low in other crops relative to cereals. For instance, the application of a mixture of DAP and UREA for pulses and oilseeds were only 18.0 and 5.6 thousand hectares, respectively. In addition, out of the total quantity of chemical fertilizers applied, the amount of a mixture of DAP and UREA was 1441.4 thousand quintals, which is 63.3% of the total quantity of chemical fertilizers. The application of a mixture of DAP and UREA to cereals, pulses, vegetables and root crops amounted to about 1,384.7, 15.4, 16.1 and 20.8 thousand quintals, in that order. Of the total quantity of mixed chemical fertilizers applied, Teff, wheat and maize took the highest amount, i.e., 514.0, 374.4 and 393.3 quintals, respectively. For details, refer to Summary Tables VI.4 and VI.5.

**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**

Type of Fertilizer	Number of Holders Applying Fertilizer by Type									
	Total	Grains				Vegetables	Root Crops	Permanent Crops		
		Cereals	Pulses	Oilseeds	Others			Fruits	Stimulant	Other
Rural and Urban.....	7589474	6251834	1914302	422768	232723	2141368	2437684	925893	1950802	2145329
Percent..	100.00									
Natural .....	6430585	4375382	1547616	323402	216927	1977652	2119109	907128	1863112	2128562
Chemical .....	3570960	3363066	454716	117924	17062	213753	511309	26136	126510	26171
DAP .....	1818886	1620637	312943	62453	7890	77937	343729	7216	34362	9576
UREA.....	340582	240012	21976	9305	3310	61094	53492	6268	31347	7919
DAP & UREA .....	2046415	1964513	125147	51802	5754	81719	138024	12347	65039	7775
Urban .....	100310	77492	7432	903	1258	8848	8773	10941	18672	26143
Percent..	1.32									
Natural .....	47719	17761	2363	261	1068	6528	5727	10429	16951	25054
Chemical .....	68174	63649	5120	643	210	2400	3205	753	1969	1265
Rural Meher .....	7178609	5585950	1410759	404237	216170	1814567	1666138	914952	1932130	2119186
Percent..	94.59									
Natural .....	5982465	3543916	1055484	305597	200520	1658809	1485481	896699	1846161	2103507
Chemical .....	3393251	3255571	401318	117008	16584	196771	227559	25384	124541	24906
DAP .....	1706016	1583418	272322	62180	7819	74182	126238	7216	34362	9576
UREA.....	312730	232841	20216	9305	3310	56310	32837	6268	31347	7919
DAP & UREA .....	2004481	1948457	116975	51802	5558	74659	75380	12347	65039	7775
Rural Belg .....	2498968	1477419	644638	19634	22724	503073	1348058	-	-	-
Percent..	32.93									
Natural .....	2169151	1363989	602871	19433	22528	487219	1069720	-	-	-
Chemical .....	531060	165294	58912	273	268	17619	358490	-	-	-
DAP .....	406676	127050	48361	273	*	4119	267864	-	-	-
UREA.....	34634	8123	1880	-	-	5353	22870	-	-	-
DAP & UREA .....	102582	32129	9123	-	197	8309	72248	-	-	-
Type of Fertilizer	Area in Hectares									
	Total	Cereals	Pulses	Oilseeds	Others	Vegetables	Root Crops	Fruits	Stimulant	Other
Rural and Urban.....	3817932	3075651	210559	50789	7261	51186	163280	11335	92743	155129
Percent..	100.00	80.56	5.52	1.33	0.19	1.34	4.28	0.3	2.43	4.06
Natural .....	1464652	908249	128779	32380	5368	32499	111951	10707	81033	153686
Percent..	38.36	62.01	8.79	2.21	0.37	2.22	7.64	0.73	5.53	10.49
Chemical .....	2353281	2167401	81781	18409	1893	18686	51329	628	11710	1442
Percent..	61.64	92.1	3.48	0.78	0.08	0.79	2.18	0.03	0.5	0.06
DAP .....	1066607	951841	59572	11269	1065	6007	33748	172	2589	344
Percent..	27.94	89.24	5.59	1.06	0.10	0.56	3.16	0.02	0.24	0.03
UREA .....	88573	73956	2449	1237	177	4205	2900	120	3117	413
Percent..	2.32	83.50	2.76	1.40	0.20	4.75	3.27	0.14	3.52	0.47
DAP & UREA .....	1145548	1093921	17968	5583	600	7753	13594	267	5578	286
Percent..	30.00	95.49	1.57	0.49	0.05	0.68	1.19	0.02	0.49	0.02
Urban .....	62755	51813	2235	394	147	1028	1705	720	2268	2445
Percent..	1.64	82.56	3.56	0.63	0.23	1.64	2.72	1.15	3.61	3.9
Natural .....	10202	4130	443	73	97	305	619	651	1841	2045
Percent..	0.27	40.48	4.34	0.72	0.95	2.99	6.07	6.38	18.05	20.05
Chemical .....	52552	47683	1792	320	51	723	1087	70	427	400
Percent..	1.38	90.73	3.41	0.61	0.1	1.38	2.07	0.13	0.81	0.76

*Note: Some of the holders operate both in Meher and Belg seasons as well as they apply fertilizers in different types of crops. As a result there are duplication of holders who apply fertilizers in both the seasons and also in the crops. Due to these duplications holders who applied fertilizer in rural and urban areas of the private holdings do not add up to the totals.*

SUMMARY TABLE VI.4: CONTD.

Type of Fertilizer	Area in Hectares									
	Total	Grains				Vegetables	Root Crops	Permanent Crops		
		Cereals	Pulses	Oilseeds	Others			Fruits	Stimulant	Other
Rural Meher .....	3428876	2842279	172753	50134	6659	42375	60901	10615	90475	152684
Percent..	89.81	82.89	5.04	1.46	0.19	1.24	1.78	0.31	2.64	4.45
Natural .....	1215718	768303	99425	32088	4840	25565	44606	10056	79192	151642
Percent..	31.84	63.2	8.18	2.64	0.4	2.1	3.67	0.83	6.51	12.47
Chemical .....	2213158	2073976	73328	18046	1819	16810	16295	559	11283	1043
Percent..	57.97	93.71	3.31	0.82	0.08	0.76	0.74	0.03	0.51	0.05
DAP .....	996035	912117	54115	11226	1059	5878	8534	172	2589	344
Percent..	26.09	91.57	5.43	1.13	0.11	0.59	0.86	0.02	0.26	0.03
UREA .....	84850	72364	2310	1237	177	3853	1259	120	3117	413
Percent..	2.22	85.28	2.72	1.46	0.21	4.54	1.48	0.14	3.67	0.49
DAP & UREA ..	1132273	1089494	16903	5583	582	7080	6501	267	5578	286
Percent..	29.66	96.22	1.49	0.49	0.05	0.63	0.57	0.02	0.49	0.03
Rural Belg .....	326302	181559	35571	261	454	7783	100673	-	-	-
Percent..	8.55	55.64	10.9	0.08	0.14	2.39	30.85	-	-	-
Natural .....	238732	135817	28911	218	431	6629	66726	-	-	-
Percent..	6.25	56.89	12.11	0.09	0.18	2.78	27.95	-	-	-
Chemical .....	87570	45743	6661	*	*	1154	33947	-	-	-
Percent..	2.29	52.24	7.61	*	*	1.32	38.77	-	-	-
DAP .....	70572	39724	5457	*	*	129	25214	-	-	-
Percent..	1.85	56.29	7.73	*	*	0.18	35.73	-	-	-
UREA .....	3723	1592	139	-	-	352	1641	-	-	-
Percent..	0.10	42.76	3.73	-	-	9.45	44.08	-	-	-
DAP & UREA ..	13275	4427	1065	-	*	673	7093	-	-	-
Percent..	0.35	33.35	8.02	-	*	5.07	53.43	-	-	-
Quantity in Quintals										
Total (Rural) .....	2278541	2119491	56138	7546	1647	29136	60605	549	3040	388
Percent..	100.00	93.02	2.46	0.33	0.07	1.28	2.66	0.02	0.13	0.02
DAP .....	778420	687675	39219	4767	903	8711	35990	181	827	148
Percent..	34.16	88.34	5.04	0.61	0.12	1.12	4.62	0.02	0.11	0.02
UREA.....	58703	47086	1565	742	172	4333	3811	122	790	81
Percent..	2.58	80.21	2.67	1.26	0.29	7.38	6.49	0.21	1.35	0.14
DAP & UREA .....	1441418	1384730	15354	2036	573	16092	20804	246	1423	159
Percent..	63.26	96.07	1.07	0.14	0.04	1.12	1.44	0.02	0.10	0.01
Rural Meher .....	2206065	2091760	53150	7534	1609	26491	21543	549	3040	388
Percent..	96.82	94.82	2.41	0.34	0.07	1.2	0.98	0.02	0.14	0.02
DAP .....	727473	665805	36814	4755	902	8553	9488	181	827	148
Percent..	31.93	91.52	5.06	0.65	0.12	1.18	1.3	0.02	0.11	0.02
UREA.....	55105	46030	1506	742	172	3818	1844	122	790	81
Percent..	2.42	83.53	2.73	1.35	0.31	6.93	3.35	0.22	1.43	0.15
DAP & UREA .....	1423486	1379925	14830	2036	536	14119	10211	246	1423	159
Percent..	62.47	96.94	1.04	0.14	0.04	0.99	0.72	0.02	0.1	0.01
Rural Belg .....	72476	27731	2988	*	*	2645	39062	-	-	-
Percent..	3.18	38.26	4.12	*	*	3.65	53.90	-	-	-
DAP .....	50947	21870	2405	*	*	158	26502	-	-	-
Percent..	2.24	42.93	4.72	*	*	0.31	52.02	-	-	-
UREA.....	3598	1056	59	*	*	515	1967	-	-	-
Percent..	0.16	29.35	1.64	-	-	14.31	54.67	-	-	-
DAP & UREA .....	17932	4805	524	-	*	1973	10593	-	-	-
Percent..	0.79	26.8	2.92	-	*	11	59.07	-	-	-

**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 .....	7589474	3817932	6430585	1464652	1818886	1066606	778421
Grain Crops .....	6477890	3344260	4742914	1074776	1696558	1023747	732563
Cereals .....	6251834	3075651	4375382	908249	1620637	951841	687675
Teff .....	2144862	946105	467687	98468	765561	319905	220441
Barley .....	1604562	382039	941743	134146	456275	175085	125018
Wheat .....	1739351	618039	475412	61395	587514	272092	221477
Maize .....	4084617	778339	3311487	414948	392549	94595	70862
Sorghum .....	870224	201981	761007	172265	38938	6860	2684
Finger millet .....	427199	138180	127278	23039	178127	77640	43841
Oats ('Aja') .....	91485	10147	56256	3648	27900	5534	3247
Rice .....	5651	820	3505	341	682	130	105
Pulses .....	1914302	210559	1547616	128779	312943	59572	39219
Horse/Faba .....	893898	97585	665478	59912	174832	29433	19915
Field peas .....	272562	35591	172522	16119	79148	15323	10690
Haricot beans .....	842021	53385	759618	38100	79115	11111	6514
Chick peas .....	78433	11291	64205	7963	4441	961	553
Lentils .....	55615	4733	34197	2564	11547	928	468
Vetch/Grass .....	28187	3306	22431	2315	1756	349	145
Soya .....	4405	944	2797	129	1126	637	596
Fenugreek .....	56592	2792	42437	1208	4458	551	236
Gibto .....	8562	933	4323	468	2474	280	102
Oil Seeds .....	422768	50789	323402	32380	62453	11269	4767
Neug .....	87440	24827	66417	17703	13805	4734	1265
Linseed .....	67014	7750	43527	3467	15981	3351	1419
Ground nuts .....	25452	3448	21254	2711	1454	194	24
Sufflower .....	18394	797	12146	296	1741	96	29
Sesame .....	26611	4004	23821	3232	879	293	77
Rapeseed .....	224267	9963	170978	4970	31560	2600	1953
Other Grains .....	232723	7261	216927	5368	7890	1065	903
Vegetables .....	2141368	51186	1977652	32499	77937	6007	8711
Lettuce .....	9385	180	6676	66	189	*	*
Head cabbage .....	29455	586	21963	296	2035	*	*
Kale .....	1166941	14136	1150394	13688	13182	207	284
Tomatoes .....	37165	2061	27367	656	1511	147	232
Green peppers .....	242974	2404	224509	1957	6706	124	201
Red peppers .....	646292	27321	506052	12060	53968	5391	7831
Swiss chard .....	14447	146	12057	66	368	*	*
Others .....	297102	4352	289983	3710	3134	91	97
Root Crops .....	2437684	163280	2119109	111951	343729	33748	35990
Beet root .....	39522	420	32019	231	3622	57	58
Carrot .....	26943	759	19834	249	3119	123	200
Onions .....	384698	11392	328514	5680	21258	1752	1868
Potatoes .....	1339813	110993	1045046	67820	306075	31004	32892
Garlic .....	500945	3310	468216	2909	10344	137	230
Taro ('Godere') .....	384532	10472	381878	10254	2375	138	216
Sweet potatoes .....	432612	23355	414339	22436	9247	461	493
Others .....	71913	2579	70589	2371	706	*	32
Permanent Crops .....	3580671	259207	3491492	245426	44681	3104	1156
Fruit Crops .....	925893	11335	907128	10707	7216	172	181
Avocado .....	132055	880	130750	861	569	5	11
Bananas .....	549835	5588	542585	5385	2855	49	80
Guava (Zeytuna) .....	56652	444	53530	358	525	25	7
Lemons .....	41145	214	40235	198	199	*	*
Mangoes .....	104807	1195	100394	1076	1560	31	37
Oranges .....	131831	864	129864	829	499	13	9
Papayas .....	153721	872	150285	798	891	*	15
Pineapples .....	2262	9	2259	8	-	-	-
Others .....	94649	1269	90932	1194	863	24	18
Stimulant Crops .....	1950802	92743	1863112	81033	34362	2589	827
Chat .....	721748	41115	665801	33339	14998	1347	304
Coffee .....	845956	42320	817159	39071	16418	1095	408
Hops .....	786258	9292	765907	8607	6764	147	115
Others .....	211	16	211	16	-	-	-
Other Permanent .....	2145329	155129	2128562	153686	9576	344	148
Enset .....	2004129	150978	1998057	150546	4592	167	87
Sugar Cane .....	207222	3750	199303	2838	2360	129	42
Others .....	83101	400	75646	303	2872	48	20

SUMMARY TABLE VI.5 Contd.

Crop	Application of Fertilizers by Type and Quantity							
	UREA			DAP and UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
TOTAL .....	340582	88573	58702	2046415	1145549	1441418	68174	52552
Grain Crops.....	254269	77819	49565	1983020	1118072	1402693	64507	49846
Cereals .....	240012	73956	47087	1964513	1093921	1384730	63649	47683
Teff .....	107357	36809	21275	913860	475143	513969	28750	15780
Barley .....	28666	6178	4826	276417	62068	63140	10402	4563
Wheat .....	44256	10868	9124	697574	257049	374415	27362	16634
Maize.....	67586	11431	8498	830052	248951	393271	21754	8415
Sorghum .....	24714	5644	1891	67682	16240	10912	2928	972
Finger millet.....	11999	2868	1391	121699	33474	27686	2831	1159
Oats ('Aja') .....	911	109	72	6834	708	911	405	149
Rice .....	225	50	9	1248	289	426	28	11
Pulses .....	21976	2449	1565	125147	17968	15355	5120	1792
Horse/Faba beans.....	7581	681	604	59089	6918	6735	2323	641
Field peas .....	3894	637	396	19173	3232	2781	968	280
Haricot beans .....	8586	574	348	28723	3042	1498	1414	558
Chick peas .....	1499	320	86	8327	1949	1552	303	99
Lentils.....	880	89	47	9017	1096	1335	207	56
Vetch/Grass peas.....	263	*	14	3690	564	625	138	43
Soya.....	60	*	*	274	82	77	*	*
Fenugreek.....	777	58	26	9239	936	716	127	39
Gibto.....	*	*	*	1745	149	36	*	*
Oil Seeds.....	9305	1237	742	51802	5583	2036	643	320
Neug.....	1588	401	*	7142	1845	823	167	144
Linseed .....	1143	96	53	6464	713	530	275	123
Ground nuts.....	1832	251	64	1406	275	105	75	15
Sufflower.....	1259	67	31	3375	334	50	*	*
Sesame .....	925	250	39	1042	205	149	45	24
Rapeseed .....	2795	171	75	33309	2211	379	89	10
Other Grains .....	3310	177	172	5754	600	572	210	51
Vegetables .....	61094	4204	4333	81719	7752	16092	2400	723
Lettuce.....	1436	54	*	1638	31	70	235	*
Head cabbage.....	2943	95	354	3395	139	387	118	14
Kale .....	3527	40	62	5747	117	200	719	85
Tomatoes.....	1542	*	193	7307	888	2539	398	173
Green peppers .....	4515	101	255	8989	209	437	102	12
Red peppers.....	47743	3688	3253	55315	5850	12350	1137	332
Swiss chard .....	544	4	12	1294	11	28	343	*
Others .....	1232	26	25	4065	*	82	56	*
Root Crops.....	53492	2900	3811	138024	13594	20804	3205	1087
Beet root.....	1878	43	132	2950	77	173	117	*
Carrot .....	1423	29	49	3324	166	253	352	*
Onions .....	15734	1108	1471	26369	2410	6686	1010	442
Potatoes .....	23266	1469	1675	91177	10295	12180	1769	405
Garlic .....	9896	78	328	14593	176	604	119	11
Taro ('Godere') .....	311	*	*	1005	58	117	71	*
Sweet potatoes .....	4912	140	128	8294	308	647	125	10
Others .....	*	*	*	638	106	*	16	*
Permanent Crops .....	40666	3649	993	76032	6131	1828	3496	897
Fruit Crops.....	6268	120	122	12347	267	246	753	70
Avocado .....	351	*	5	387	6	*	168	5
Bananas .....	1766	25	22	5198	108	101	173	*
Guava (Zeytuna) .....	1320	32	19	1416	21	15	46	*
Lemons.....	191	*	5	521	14	*	18	*
Mangoes .....	971	25	12	2268	58	35	129	6
Oranges .....	433	*	6	1063	12	13	139	7
Papayas .....	1194	18	17	1444	16	26	219	16
Pineapples .....	-	-	-	-	-	-	*	*
Others .....	1081	12	35	2104	33	46	90	6
Stimulant Crops.....	31347	3117	790	65039	5578	1423	1969	427
Chat .....	23350	2603	624	37015	3728	856	717	98
Coffee.....	6577	466	122	17243	1368	343	1074	321
Hops .....	3009	47	44	16103	483	224	228	9
Others .....	-	-	-	-	-	-	-	-
Other Permanent Crops .....	7919	413	81	7775	286	159	1265	400
Enset.....	1358	75	25	3218	105	71	885	86
Sugar Cane.....	3381	320	25	2436	151	57	395	*
Others .....	3180	17	32	2216	30	31	18	*

## **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 has been collected. Hence, data on the number of holders that have used improved variety seeds and quantity of improved cereals, pulses and oil seeds in Ethiopia are presented in Summary Table VI.6.

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

As portrayed in Summary Table VI.6 the use of improved seeds is limited to only 986.0 thousand holders in rural and urban areas of the country. Of the total holders using improved seeds, 67.1% used improved maize seed, 13.2% used improved coffee seeds, 7.8% used improved wheat seeds, 2.6% each used improved barley and sorghum seeds, 2.2% used improved haricot bean seeds and 3.9% used improved variety of Teff seeds. The utilization of improved seeds for all other types of crops is very low (most of them are less than 1%).

### **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 103.7 thousand quintals in rural areas. Of this total amount the share of Meher and Belg season was found to be 89 and 11 percent, respectively. Considering the total quantity of improved seeds utilized, about 59.0% accounted for maize, 28.8% for wheat, 3.5% for Teff, 2.9% for barley and 3.1% for haricot beans. In the case of oil seeds, the quantity of improved seeds used was insignificant. Details are given in Summary Table VI.6.

The data on quantity of improved seeds used by region at country level is presented in Summary Table VI.7. Thus, the data in the table shows that the highest amount of improved seeds used was observed in Oromia Region (52.6%) followed by Amhara Region (25.4%). Moreover, the quantity of improved seeds used in S.N.N.P, and Tigray Region was 13.9 and 6.3 percent, respectively. On the other hand, the quantity of improved seeds used for the remaining regions were only 1.8%.

**SUMMARY TABLE VI.6: Number of Holders Utilizing Improved Seeds and Quantity of Improved Seeds Applied by Crop Type in Rural and Urban Areas, for Private Holdings**

Type of Crop	Holders Applying Improved Seeds					Quantity in Quintals			
	Total	%	Rural		Urban Meher	Rural	%	Meher	Belg
			Meher	Belg					
Total.....	986003	100.00	915515	53599	25893	103673	100.00	92234	11438
Grain Crops.....	823152	83.48	769311	37521	19612	103673	100.00	92234	11438
Cereals.....	787515	79.87	738071	32894	19295	98405	94.92	89818	8587
Teff.....	38048	3.86	32624	3273	2151	3631	3.50	3402	229
Barley.....	25181	2.55	22617	1923	652	2986	2.88	2627	359
Wheat.....	76608	7.77	71717	839	4112	29829	28.77	29705	124
Maize.....	661297	67.07	622213	27740	13477	61122	58.96	53309	7813
Sorghum.....	25822	2.62	24555	790	477	401	0.39	388	12
Finger millet.....	4700	0.48	4538	*	148	212	0.20	204	*
Oats ('Aja').....	1169	0.12	856	299	14	*	*	31	*
Rice.....	808	0.08	765	*	20	153	0.15	153	-
Pulses.....	48090	4.88	39851	7839	547	4875	4.70	2201	*
Horse/Faba beans..	13953	1.42	13742	63	149	670	0.65	669	*
Field peas.....	6744	0.68	6582	*	36	284	0.27	279	*
Haricot beans.....	21944	2.23	14789	7072	230	3192	3.08	596	*
Chick peas.....	4803	0.49	4288	446	69	315	0.30	252	63
Lentils.....	1834	0.19	1794	*	23	171	0.16	170	*
Vetch/Grass peas...	2118	0.21	2019	*	27	83	0.08	79	*
Soya.....	402	0.04	388	-	14	145	0.14	145	-
Fenugreek.....	1170	0.12	1047	104	19	*	*	*	*
Oil Seeds.....	19185	1.95	18895	194	96	197	0.19	197	*
Neug.....	2420	0.25	2395	-	25	28	0.03	28	-
Linseed.....	2368	0.24	2281	*	37	83	0.08	83	*
Ground nuts.....	1079	0.11	1041	*	23	*	*	*	*
Sufflower.....	3804	0.39	3737	*	-	*	*	*	*
Sesame.....	1923	0.20	1900	*	18	*	*	*	*
Rapeseed.....	8413	0.85	8354	*	*	*	*	*	*
Other Grains.....	3617	0.37	3068	547	48	*	*	*	*
Vegetables.....	23418	2.38	15178	8206	665	-	-	-	-
Lettuce.....	2061	0.21	1103	937	81	-	-	-	-
Head cabbage.....	6739	0.68	4565	2169	75	-	-	-	-
Kale.....	4919	0.50	2663	2029	227	-	-	-	-
Tomatoes.....	4984	0.51	1884	3122	165	-	-	-	-
Green peppers.....	1933	0.20	1341	727	38	-	-	-	-
Red peppers.....	3002	0.30	2436	463	103	-	-	-	-
Swiss chard.....	4866	0.49	3233	1452	199	-	-	-	-
Others.....	1058	0.11	887	*	*	-	-	-	-
Root Crops.....	35287	3.58	22570	12472	768	-	-	-	-
Beet root.....	7956	0.81	6525	1384	111	-	-	-	-
Carrot.....	8105	0.82	6005	1893	208	-	-	-	-
Onions.....	10289	1.04	4603	5645	291	-	-	-	-
Potatoes.....	6484	0.66	2851	3528	115	-	-	-	-
Garlic.....	1411	0.14	1201	185	25	-	-	-	-
Taro ('Godere').....	1162	0.12	1134	*	15	-	-	-	-
Sweet potatoes.....	5452	0.55	4252	1119	180	-	-	-	-
Others.....	389	0.04	381	-	*	-	-	-	-
Permanent crops.....	162113	16.44	155709	-	6404	-	-	-	-
Fruit Crops.....	36823	3.73	34798	-	2025	-	-	-	-
Avocado.....	9442	0.96	8701	-	741	-	-	-	-
Bananas.....	6578	0.67	6355	-	223	-	-	-	-
Guava (Zeytuna) ...	4913	0.50	4608	-	305	-	-	-	-
Lemons.....	1079	0.11	1016	-	63	-	-	-	-
Mangoes.....	5339	0.54	4897	-	442	-	-	-	-
Oranges.....	3790	0.38	3523	-	267	-	-	-	-
Papayas.....	11842	1.20	11024	-	817	-	-	-	-
Pineapples.....	*	*	*	-	*	-	-	-	-
Others.....	2874	0.29	2630	-	244	-	-	-	-
Stimulant Crops.....	130043	13.19	125492	-	4551	-	-	-	-
Chat.....	-	-	-	-	-	-	-	-	-
Coffee.....	130043	13.19	125492	-	4551	-	-	-	-
Other Permanent Crops.....	8461	0.86	7779	-	682	-	-	-	-

Summary Table VI.7 Quantity of Chemical Fertilizers Applied and Improved Seeds  
Used by Region and Season in Rural Areas, for Private Holdings

Quantity in Quintals

Data Items	Total	Percent	Meher	Belg
<b>Quantity of Fertilizers</b>				
National	2278541	100.00	2206065	72476
Tigray	132919	5.83	128933	3987
Afar	334	0.01	284	50
Amhara	680352	29.86	671947	8405
Oromia	1227793	53.89	1187513	40279
Somali	435	0.02	435	*
Benishangul-Gumuz	6449	0.28	6449	-
S.N.N.P.R	194697	8.54	175065	19632
Gambella	216	0.01	216	-
Harari	1169	0.05	1144	*
Addis Ababa	34074	1.50	33988	86
Dire Dawa	103	0.00	92	*
<b>Quantity of Improved Seeds</b>				
National	103673	100.00	92234	11438
Tigray	6504	6.27	6329	175
Afar	*	*	*	*
Amhara	26337	25.40	25537	*
Oromia	54550	52.62	52754	1796
Somali	485	0.47	384	*
Benishangul-Gumuz	859	0.83	858	*
S.N.N.P.R	14438	13.93	5899	8539
Gambella	62	0.06	58	*
Harari	45	0.04	45	-
Addis Ababa	269	0.01	269	-
Dire Dawa	17	0.00	12	*

## 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 the enumeration, all holders in the sampled households in the country 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 Ethiopia is very low and this may have a direct impact on the level of awareness of the holders with respect to improved farming activities and is a typical characteristic of peasant community in developing countries. According to the census data, a large number of holders (65.1% in rural and 41.2 % in urban areas) were found to be illiterate, while 13.7% in rural and 11.4% in urban areas reported to have participated in informal education. Moreover, the data shows that 16.7% of the holders in rural and 23.8% of holders in urban areas have completed grades 1 to 6 and only 4.5% of the holders in rural and 21.5 % in

urban areas have completed grades 7-12. Furthermore, around 0.1% of the holders in rural and 2.1% in urban areas reported as having 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 of the country. 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.

The total number of holders participating in the agricultural extension package programs is estimated to be 582.0 thousands, which is only 5.6% of the total holders in the country. Of the total holders participating in the extension programs, 553.2 thousand holders were in Meher season and 37.5 thousand holders were in Belg season. The distribution of extension package program participants by educational status shows that 57.0% were illiterate, 17.0% have participated in informal education, 19.6% have completed grades 1 to 6, 6.1% have completed grades 7-12 and 0.3% have completed above grade 12.

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, 54.4, 61.4, 62.7 and 56.4 percent were illiterate, respectively (For details, refer to Summary Table VI.8).

The data on the total number of holders applying agricultural inputs and irrigation practice in Ethiopia by region for private holdings in rural and urban areas are presented in Summary Table VI.9. In each region, 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 it is used by 2,960.5 thousand holders in Oromia Region and 1,943 to 2,052 thousands in Amhara and S.N.N.P. Regions. The second most important agricultural input used by holders in the country is pesticides, which is mostly applied in Oromia Region (973 thousand holders) followed by S.N.N.P. Region (484.8 thousand holders). Improved seeds rank third in utilization and the majority of the holders (493.6 thousands) used in Oromia Region followed by Amhara Region (291.2 thousands).

**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 Holders									
			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	10534348	100.00	6805511	64.60	1433367	13.61	1775084	16.85	503161	4.78	16279	0.15
Rural .....	10329264	100.00	6720984	65.07	1409945	13.65	1726243	16.71	459155	4.45	11997	0.12
Meher.....	10248724	100.00	6662237	65.01	1402391	13.68	1715301	16.74	455931	4.45	11923	0.12
Belg .....	4640396	100.00	2892957	62.34	594655	12.81	890879	19.20	256446	5.53	5162	0.11
Urban .....	205084	100.00	84528	41.22	23422	11.42	48841	23.82	44006	21.46	4282	2.09
<b>Improved Seeds</b>												
Rural and Urban	986004	9.36	536577	54.42	164597	16.69	203844	20.67	77351	7.84	3635	0.37
Rural .....	960110	9.30	528966	55.09	161851	16.86	196812	20.50	69914	7.28	2568	0.27
Meher.....	915515	8.93	502751	54.91	156115	17.05	187145	37.22	66946	7.31	2558	0.28
Belg .....	53600	1.16	30785	57.43	7161	13.36	11453	37.20	4192	7.82	*	*
Urban .....	25893	12.63	7611	29.39	2746	10.61	7031	27.15	7437	28.72	1068	4.12
<b>Irrigation .....</b>												
Rural and Urban.....	1063381	10.09	652332	61.35	214588	20.18	151403	14.24	43808	4.12	1250	0.12
Rural .....	1046212	10.13	645547	61.70	212299	20.29	147395	14.09	40207	3.84	765	0.07
Meher.....	685026	6.68	427191	62.36	136420	19.91	95176	13.89	25665	3.75	574	0.08
Belg .....	547993	11.81	333179	60.80	115473	21.07	77642	14.17	21508	3.92	191	0.03
Urban .....	17168	8.37	6785	39.52	2290	13.34	4008	23.35	3601	20.98	485	2.83
<b>Fertilizer</b>												
Rural and Urban	7589474	72.05	4755460	62.66	1073992	14.15	1347641	17.76	399840	5.27	11850	0.16
Rural .....	7489164	72.50	4718140	63.00	1062978	14.19	1322399	17.66	375483	5.01	9473	0.13
Meher.....	7178609	70.04	4513827	62.88	1031605	14.37	1262802	17.59	360429	5.02	9256	0.13
Belg .....	2498968	53.85	1531943	61.30	301655	12.07	499372	19.98	162361	6.50	3434	0.14
Urban .....	100311	48.91	37320	37.20	11014	10.98	25242	25.16	24358	24.28	2377	2.37
<b>Pesticides</b>												
Rural and Urban.....	1648216	15.65	930302	56.44	218663	13.27	367352	22.29	127986	7.77	3832	0.23
Rural .....	1609972	15.59	918123	57.03	214349	13.31	356635	22.15	117633	7.31	3151	0.20
Meher.....	1331744	12.99	740637	55.61	193089	14.50	295552	22.19	99598	7.48	2836	0.21
Belg .....	362003	7.80	219157	60.54	32733	9.04	82303	22.74	27230	7.52	533	0.15
Urban .....	38244	18.65	12179	31.85	4314	11.28	10717	28.02	10353	27.07	682	1.78
<b>Extension Program</b>												
Rural .....	581994	5.63	331951	57.04	98955	17.00	114032	19.59	35420	6.09	1636	0.28
Meher.....	553199	5.40	313684	56.70	94963	17.17	108931	19.69	34029	6.15	1592	0.29
Belg .....	37486	0.81	23357	62.31	5645	15.06	6640	17.71	1769	4.72	*	*

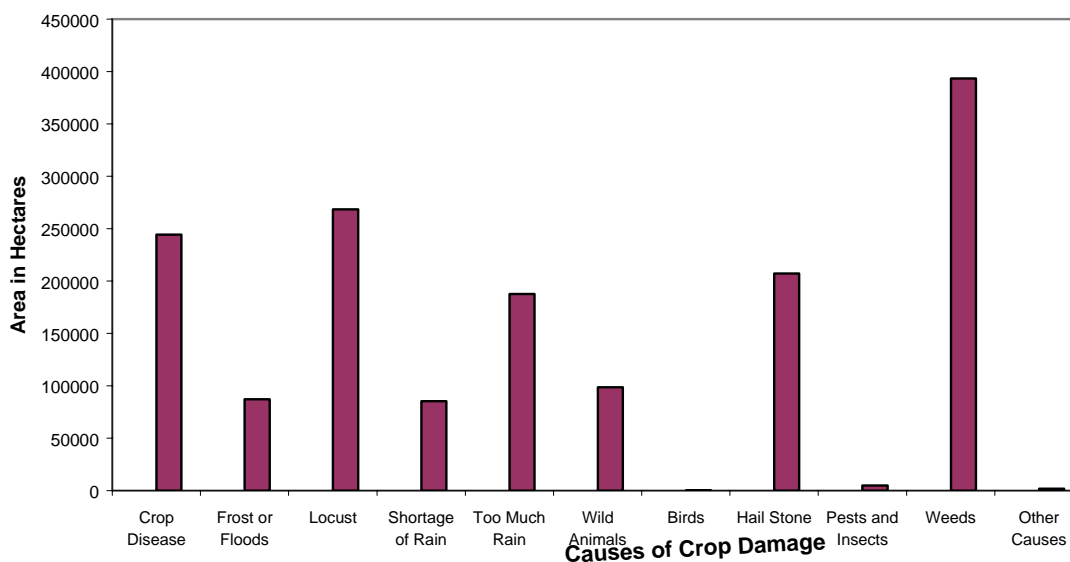
*Note: Some of the holders operate both in Meher and Belg seasons. Consequently, there are duplication of holders who used agricultural inputs and those who participate in extension programmes. Due to this fact rural private holders who used agricultural inputs and those who participated in the extension programmes do not add up to the totals.*

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

Data Items	Number of Holders							
	Rural and Urban	%	Rural				Urban	%
			Meher	Belg	Both	%		
<b>National</b>								
Irrigation	1063381	100	685026	547993	1046212	100	17168	100
Imroved seeds	986003	100	915515	53599	960110	100	25893	100
Pesticides	1648216	100	1331744	362003	1609972	100	38244	100
Fertilizers	7589474	100	7178609	2498968	7489163	100	100310	100
<b>Tigray</b>								
Irrigation	106602	10.02	63431	64609	105055	10.04	1548	9.02
Imroved seeds	41595	4.22	35659	6318	40206	4.19	1388	5.36
Pesticides	37313	2.26	33515	2794	36156	2.25	1157	3.03
Fertilizers	517709	6.82	506110	36530	511758	6.83	5951	5.93
<b>Afar</b>								
Irrigation	8782	0.83	7902	1224	8209	0.78	573	3.34
Imroved seeds	1135	0.12	987	*	1106	0.12	28	0.11
Pesticides	970	0.06	859	40	895	0.06	75	0.20
Fertilizers	2802	0.04	2606	340	2733	0.04	70	0.07
<b>Amhara</b>								
Irrigation	475706	44.74	276032	282190	471502	45.07	4203	24.48
Imroved seeds	291150	29.53	280116	8760	286985	29.89	4164	16.08
Pesticides	142995	8.68	126836	16536	140839	8.75	2156	5.64
Fertilizers	2051666	27.03	1968782	483555	2040230	27.24	11436	11.40
<b>Oromia</b>								
Irrigation	381642	35.89	263271	169991	375148	35.86	6494	37.83
Imroved seeds	493620	50.06	463998	18144	479795	49.97	13824	53.39
Pesticides	972993	59.03	872321	122211	947910	58.88	25084	65.59
Fertilizers	2960487	39.01	2816250	822648	2910980	38.87	49507	49.35
<b>Somali</b>								
Irrigation	8971	0.84	8290	1808	8551	0.82	420	2.45
Imroved seeds	2671	0.27	2506	133	2607	0.27	64	0.25
Pesticides	678	0.04	549	*	588	0.04	90	0.24
Fertilizers	17329	0.23	15582	1697	16821	0.22	508	0.51
<b>Benishangul-Gumuz</b>								
Irrigation	11115	1.05	6778	6411	10854	1.04	261	1.52
Imroved seeds	15838	1.61	15101	459	15460	1.61	378	1.46
Pesticides	4302	0.26	2801	1457	4159	0.26	144	0.38
Fertilizers	59029	0.78	57398	5255	58032	0.77	997	0.99
<b>S.N.N.P.R</b>								
Irrigation	61151	5.75	51940	18399	58676	5.61	2475	14.42
Imroved seeds	134905	13.68	113198	18952	129563	13.49	5342	20.63
Pesticides	484834	29.42	293006	217803	476480	29.60	8354	21.84
Fertilizers	1943140	25.60	1778995	1143461	1914180	25.56	28961	28.87
<b>Gambella</b>								
Irrigation	128	0.01	99	*	113	0.01	*	*
Imroved seeds	1849	0.19	1661	106	1763	0.18	87	0.34
Pesticides	959	0.06	350	519	869	0.05	90	0.24
Fertilizers	3892	0.05	3431	599	3862	0.05	30	0.03
<b>Harari</b>								
Irrigation	1721	0.16	1377	*	1602	0.15	119	0.69
Imroved seeds	923	0.09	812	*	840	0.09	83	0.32
Pesticides	828	0.05	692	*	767	0.05	61	0.16
Fertilizers	11243	0.15	10711	1465	10820	0.14	424	0.42
<b>Addis Ababa</b>								
Irrigation	1193	0.11	275	248	450	0.04	743	4.33
Imroved seeds	1196	0.12	674	72	729	0.08	466	1.80
Pesticides	1687	0.10	610	141	717	0.04	970	2.54
Fertilizers	13858	0.18	11534	251	11563	0.15	2295	2.29
<b>Dire Dawa</b>								
Irrigation	6368	0.60	5630	2763	6051	0.58	318	1.85
Imroved seeds	1122	0.11	803	*	1054	0.11	68	0.26
Pesticides	655	0.04	203	389	592	0.04	63	0.16
Fertilizers	8317	0.11	7209	3168	8186	0.11	131	0.13

When we come to irrigation practice, relatively a great number of holders have followed irrigation practice in Amhara Region (475.7 thousands) and Oromia Region (381.6 thousands) (For details, refer to Summary Table VI.9).

**Fig VI.4 Damaged Cropland Area by Causes of Damage in Rural Areas, for Private Holdings**



## **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 Ethiopia. Damaged cropland area includes any cropland planted or sown with the intension of harvesting crops, but failed to produce crop partly or fully due to various reasons. The census data shows that, out of the total cultivated cropland area, 17.1% in Meher and 8.8% in Belg seasons were affected by crop damage. The cropland area damage that accounted for 66.2% fall under holders in rural areas who had holding size that ranges from 1.0 and 5.0 hectares. On the other hand, holders in rural areas who had holding size of between 0.51 and 1.0 hectare accounted for 19.7% of the cropland area damage. It was also indicated that holders in rural areas who had relatively large holdings (5.01 and more hectares) comprised about 5.3% of the total cropland area damage. With regard to the causes of crop damage, it is reported that 17.0% was damaged due to locusts, 15.5% was caused by crop disease, 13.1% was due to hailstone, 11.9% was due to too much rain, 5.4% was due to

shortage of rain, 5.5% was due to frost or floods, 6.2% was due to wild animals and 24.9% was due to weeds (For details, refer to Summary Table VI.10 and Fig VI.4).

SUMMARY TABLE VI.10: Causes of Damage of Cropland Area by Size of Holdings and Seasons in Rural Areas, for Private Holdings

Causes of Damage	Size of Holdings(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 .....	1578579	5103	135779	310373	554876	489628	69930	12891
Percent,,	100.00	0.32	8.60	19.66	35.15	31.02	4.43	0.82
Crop Disease.....	244311	834	23510	53263	87834	67873	9853	1145
Percent,,	15.48	0.34	9.62	21.80	35.95	27.78	4.03	0.47
Frost or Floods.....	87132	303	8367	18797	31292	24318	3313	743
Percent,,	5.52	0.35	9.60	21.57	35.91	27.91	3.80	0.85
Locust.....	268250	810	18797	46066	94075	93599	12515	2389
Percent,,	16.99	0.30	7.01	17.17	35.07	34.89	4.67	0.89
Shortage of Rain ....	85255	222	7110	16650	31302	25721	3389	861
Percent,,	5.40	0.26	8.34	19.53	36.72	30.17	3.98	1.01
Too Much Rain.....	187759	864	21946	43431	66502	47502	6565	948
Percent,,	11.89	0.46	11.69	23.13	35.42	25.30	3.50	0.50
Wild Animals.....	98534	362	9344	19218	35223	30573	3290	524
Percent,,	6.24	0.37	9.48	19.50	35.75	31.03	3.34	0.53
Birds .....	166	3	20	27	64	*	*	-
Percent,,	0.01	1.81	12.05	16.27	38.55	*	*	-
Hailstone .....	207054	380	14857	36269	67363	71955	13239	2990
Percent,,	13.12	0.18	7.18	17.52	32.53	34.75	6.39	1.44
Pests and Insects ....	5009	*	305	1001	2011	1509	166	*
Percent,,	0.32	*	6.09	19.98	40.15	30.13	3.31	*
Weeds.....	393320	1277	31136	75239	138712	126124	17546	3287
Percent,,	24.92	0.32	7.92	19.13	35.27	32.07	4.46	0.84
Others.....	1789	33	388	412	499	401	54	*
Percent,,	0.11	*	21.69	23.03	27.89	22.41	*	*
Meher Season								
Total	1487909	3897	123948	290513	526454	464937	65679	12482
Crop Disease.....	232752	693	22025	50643	84376	64815	9171	1029
Frost or Floods.....	81493	219	7450	17250	29418	23204	3236	717
Locust.....	254482	574	16752	42495	89340	90867	12101	2353
Shortage of Rain ....	82509	169	6543	15843	30449	25309	3335	861
Too Much Rain.....	184111	814	21341	42431	65388	46715	6501	920
Wild Animals.....	96326	315	8804	18567	34618	30232	3271	520
Birds .....	104	-	*	*	43	*	-	-
Hailstone .....	204751	365	14556	35770	66648	71245	13179	2989
Pests and Insects ....	3634	3	207	761	1502	1070	88	*
Weeds.....	347482	743	26257	66694	124601	111330	14766	3091
Others.....	265	*	13	45	70	104	*	-
Belg Season								
Total	90670	6642	37721	23350	17324	5283	349	-
Crop Disease.....	11559	825	4482	3022	2389	806	*	-
Frost or Floods.....	5640	509	2661	1386	831	252	-	-
Locust.....	13767	915	5373	3814	2685	904	*	-
Shortage of Rain ....	2746	283	1283	582	439	137	*	-
Too Much Rain.....	3648	420	1878	847	422	80	*	-
Wild Animals.....	2207	215	1355	462	170	*	-	-
Birds .....	62	4	28	17	12	*	-	-
Hailstone .....	2303	137	1009	680	350	128	-	-
Pests and Insects ....	1375	24	175	275	570	327	*	-
Weeds.....	45838	3146	18827	11976	9239	2452	*	-
Others.....	1524	166	651	289	215	191	*	-

## **7. FARM MANAGEMENT PRACTICES OF HOLDERS IN RURAL AREAS**

In order to obtain more detailed information concerning the various types of farm management practices of holders in rural areas of the country, 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 data on 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.

### **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 production. However, irrigation practices are not extensive in Ethiopia. As presented earlier, potatoes, maize, Teff and sorghum are relatively sizable crops that are grown by irrigation in the country. The census data reveals that of the total holder in the rural areas of the country, only 10.2% reported to have used irrigation practices. Among these holders who practice this scheme the sources of water for 69.6, 11.7, 10.9 and 7.8 percent of the holders were rivers, lakes, ponds and other sources of water, respectively. It should be noted that the total number of holders, and 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 during the 2001/02 agricultural activities. In an enumeration area a total of 30 households were systematically sampled that mainly resulted about 30 holders. Thus, the data on number of holders practicing irrigation was collected in September (for ten households) and December (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 and the number 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 assess the extent of irrigation practice in urban areas. Thus, sources of water for irrigation under permanent crops in urban

areas for Meher season have been assessed and the data are presented in Summary Table V1.13. The data in the table shows that only 8.4 percent of the total holders reported as practicing irrigation during the Meher season and of these holders the sources of water for irrigation were 59.1, 14.9, 4.3 11.8 and 6.5 percent from rivers, lakes, wells, tap water and other sources, respectively. However, holders that use wells and other sources are very few in the urban areas of the country. In the same summary table, it was observed that out of the total holders only 59.4 thousand holders (29.0%) in urban areas practiced crop production in Belg season for three years from 1999/2000(1992 E.C.) to 2001/02 (1994 E.C.). Out of which, 49.4 thousand holders (83.1%) were males and 10.0 thousand holders (16.9%) were females.

## **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 in the country, 77.3% have reported practicing crop rotation, while 5.6% 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 73% of the holders in Ethiopia have applied both natural and chemical fertilizers. Moreover, the percent of holders that applied chemical fertilizers was 34% in rural areas of the country. 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 indicates the reasons given by the holders who did not use chemical fertilizers. A total of 4,912.0 thousand holders did not use chemical fertilizers due to shortage of money, 1649.3 thousand holders due to lack of knowledge about the advantage, 421.8 thousand holders due to insufficient supply of fertilizers in their area, 881.7 thousand holders due to the high cost of fertilizer, 334.5 thousand holders reported suspecting the efficiency of the fertilizers, 38.2 thousand holders due to absence of credit service to purchase fertilizers, and 2358.8 thousand 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 (44.0%) in the country, reported to have used ox/horse driven ploughing method and 37.0% of the holders reported to have used both hand dug and ox/horse driven methods. On the other hand, 18.1%, 0.2% and 0.1% of the holders have used hand dug, both tractor and ox/horse driven, and tractor-only methods for ploughing, respectively. This ascertained the fact that the use of a tractor for ploughing among the holders in the rural areas of the country is not common.

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

According to the data in Summary Table VI.11, the majority of the holders in Ethiopia reported using different methods of soil conservation. Of which, 17.9, 9.2 and 44.0 percent of holders have practiced terracing, water catchments and ploughing along the contour, respectively. On the other hand, about 0.8% of the total holders reported using afforestation method and about 6.6% of the holders reported to other methods of soil conservation.

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

Extension packages are outreach programs operating in rural areas of the country for private holdings aiming to transfer modern agricultural technologies to increase crop and livestock productivity. The programs are usually undertaken by 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 and apply the recommended inputs and related services such as close follow up by the development agents, supervision from Wereda and Zonal Agricultural Bureaus...etc.* The prevalence of different types of extension in Ethiopia packages was assessed during the enumeration. These include, rain shortage area packages, rain abundant area packages, post harvest technology packages, ...etc. Thus, the data showed that about 8.2% of the agricultural holders were covered by

rain abundant area extension packages. The total agricultural holders covered by all other types of extension packages listed in the table are insignificant.

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> .....	10312127	100
Source of Water for Irrigation		
Holders who Practice Irrigation .....	1051250	10.19
River .....	731876	69.62
Lake .....	122535	11.66
Pond .....	114907	10.93
Other .....	81931	7.79
Method to Improve Soil Fertility		
Crop Rotation .....	7967844	77.27
Burning of Soil .....	577234	5.6
Reason for Not Using Chemical Fertilizer		
Do Not Know Advantages .....	1649296	
Too Expensive .....	881714	
Shortage of Money .....	4912043	
Insufficient Supply .....	421792	
No Credit Service .....	38150	
Suspicious of Efficacy .....	334487	
Other .....	2358801	
Method of Ploughing		
Hand Dug .....	1864987	18.09
Ox/Horse Driven .....	4540917	44.03
Tractor .....	9775	0.09
Hand Dug and Ox/Horse Driven .....	3818850	37.03
Tractor and Ox/Horse Driven .....	18769	0.18
Method of Soil Conservation		
Terracing .....	1846994	17.91
Water Catchments .....	949493	9.21
Afforestation .....	77648	0.75
Ploughing Along the Contour .....	4532326	43.95
Others .....	676436	6.56
<b>All Holders</b> .....	11062472	100
Participation in Extension Package by Type		
Rain Shortage Areas Package .....	189070	1.71
Rain Abundant Areas Package .....	902688	8.16
Post Harvest Technology Package .....	47278	0.43
Livestock Development Package .....	5541	0.05
Economically Important Crops Package .....	132291	1.2
Any Two or More Packages .....	60252	0.54
Reason For Not Participating in Extension Packages		
Do Not Know the Advantages .....	1514694	13.69
Shortage of Money .....	4029740	36.43
Suspicious of Efficacy .....	591350	5.35
Programs Not Available .....	1847715	16.7
Insufficient Arable Land .....	968814	8.76
Others .....	597336	5.4
Use of Credit or Advisory Services		
Credit Services .....	2097649	18.96
Advisory Services .....	2118895	19.15

In response to why they have not been covered by these extension packages since the program started, holders reported the reasons as follows: 36.4% of the holders reported shortage of money, 13.7% reported no knowledge about the advantage, 16.7% reported program not available, 5.4% reported suspicious of its efficiency, 8.8% reported insufficient arable land, and 5.4% 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 about 19.0 percent of holders used agricultural credit services and about 19.2 percent of the holders have obtained advice on agricultural practices.

Summary Table VI.12: 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> .....	10297464	100.00
<b>Sources</b>		
Government .....	2469767	23.98
Private Organization .....	556497	5.40
Traders .....	781091	7.59
Others .....	166228	1.61
Do not Buy .....	6246041	60.66
Not Reported .....	92344	0.90
<b>Type of Fertilizers</b>	<b>Cost in Birr/Quintal</b>	
DAP .....	285	
UREA .....	216	

## 7.7 Sources and Cost of Chemical Fertilizers.

As illustrated in Summary Table VI.12, it is estimated that a total of 2,469.8 thousand holders (24.0%) in the country reported “Government” as their major sources of chemical fertilizers, while 556.5 thousand holders (5.4%) and 781.1 thousand holders (7.6%) mentioned private organization and traders as their major sources of chemical fertilizers,

respectively. Regardless of the source, the average cost was 285 Birr/Quintal for DAP and 216 Birr/Quintal for UREA.

Summary Table VI.13 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>		
Crop Holders .....	205084	100.00
Holders who Practice Irrigation .....	17168	8.37
<b>Sources</b>		
River.....	10145	59.09
Lake.....	2555	14.88
Well.....	745	4.34
Tap Water .....	2019	11.76
Others .....	1107	6.45
Not Stated .....	1439	8.38
<b>Those who Practice Belg from 1999/2000 to 2001/02</b>		
Crop Holders .....	205084	100.00
Holders who Practice Belg .....	59428	28.98
Male .....	49396	83.12
Female.....	10033	16.88

## 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 who are willing to participate in the extension package programs.

### 8.1 Holders Participating in Crop Specific Extension Package Programs

In the rural areas of the country the distributions of holders participating in crop specific extension package programs are presented in Summary Table VI.14. Thus, 378.6, 88.0, 82.2, 44.8, 34.2, 31.0 and 17.8 thousand holders considered maize, Teff, wheat, barley, sorghum, Enset and haricot beans in crop specific extension package program, respectively. Moreover, 7 to 13 thousand holders each considered field peas, rapeseed, red pepper, onion and potatoes in crop specific extension packages. As can be observed from the data in the

table, most of this extension package programs were mainly practiced in Meher season by 553.2 thousand holders and the participation of holders in these programs were 37.5 thousand holders in Belg season (For details, see Summary Table VI.14).

## 8.2 Area Under Crop Specific Extension Package Programs

In the 2001/02 EASE, data on cropland area under extension package programs was collected in the country. Thus, Summary Table VI.14 shows that a total of 181.2 thousand hectares (1.9% of the total cropland area) was under extension package programs. Out of the total cropland area under extension package programs, 59.3% was under maize, 16.0% under Teff, 11.7% under wheat and 4.1% under sorghum and 3.7% was under barley. Nevertheless, the proportion of most of the specific crop areas under extension package programs were less than one percent in the country.

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 .....	581994	100.00	181173	100.00	553199	176045	37485	5128
Teff .....	88033	15.13	28984	16.00	87515	28869	581	115
Barley .....	44840	7.70	6767	3.74	43055	6558	1953	209
Wheat .....	82186	14.12	21262	11.74	81658	21160	742	102
Maize.....	378564	65.05	107468	59.32	357666	104516	22997	2953
Sorghum .....	34178	5.87	7491	4.13	33422	7354	757	137
Rice .....	799	0.14	174	0.10	766	172	*	*
Field peas.....	7262	1.25	789	0.44	7059	764	238	25
Haricot beans .....	17758	3.05	1317	0.73	10874	920	6883	397
Chick peas.....	4838	0.83	887	0.49	3809	705	*	*
Lentils.....	2182	0.37	337	0.19	2150	336	*	*
Nueg .....	2842	0.49	429	0.24	2842	429	-	-
Linseed .....	2242	0.39	236	0.13	2174	235	*	*
Ground nuts .....	721	0.12	89	0.05	721	89	-	-
Sesame.....	1972	0.34	479	0.26	1972	479	-	-
Rapeseed.....	9184	1.58	481	0.27	9128	481	*	-
Other Grains.....	1994	0.34	*	*	1350	*	*	*
Tomatoes .....	3928	0.67	183	0.10	1473	73	2640	110
Red Pepper.....	8552	1.47	456	0.25	6731	357	1821	*
Onion.....	12434	2.14	572	0.32	5429	173	7222	399
Potatoes .....	12754	2.19	585	0.32	5395	220	7582	365
Sweet potatoes....	5698	0.98	202	0.11	5304	182	394	20
Enset .....	30976	5.32	1442	0.80	30976	1442	-	-
Other Permanent	*	*	*	*	*	*	-	-

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

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectare	Hectare	%	Hectare	%	Hectare	%	Hectare	%
TOTAL .....	9731322	267672	2.75	170240	1.75	3755178	38.59	782364	8.04
Grain Crops .....	8718831	252987	2.9	104125	1.19	3289672	37.73	764380	8.77
Cereals .....	7074876	244750	3.46	91386	1.29	3023838	42.74	746949	10.56
Teff .....	1868243	10841	0.58	11965	0.64	929835	49.77	303979	16.27
Barley .....	955236	3457	0.36	7913	0.83	376987	39.47	84729	8.87
Wheat .....	1065711	19507	1.83	4636	0.44	600909	56.39	292858	27.48
Maize .....	1674228	205620	12.28	52692	3.15	767940	45.87	31618	1.89
Sorghum .....	1176954	4173	0.35	12415	1.05	200398	17.03	19484	1.66
Finger millet .....	282726	871	0.31	519	0.18	136964	48.44	10248	3.62
Oats ('Aja') .....	43411	100	0.23	788	1.82	9994	23.02	3858	8.89
Rice .....	8367	181	2.16	*	*	809	9.67	177	2.12
Pulses .....	1166907	5668	0.49	9758	0.84	208325	17.85	13594	1.16
Horse/Faba beans .....	371670	1394	0.38	929	0.25	96742	26.03	3623	0.97
Field peas .....	204025	766	0.38	497	0.24	35247	17.28	5351	2.62
Haricot beans .....	206771	1440	0.7	1767	0.85	52705	25.49	1983	0.96
Chick peas .....	194981	1335	0.68	3088	1.58	11179	5.73	1136	0.58
Lentils .....	75444	284	0.38	1154	1.53	4674	6.2	427	0.57
Vetch/Grass peas .....	84986	265	0.31	1325	1.56	3255	3.83	815	0.96
Soya .....	1802	144	7.99	*	*	870	48.28	43	2.39
Fenugreek .....	19965	41	0.21	956	4.79	2743	13.74	212	1.06
Gibto .....	7263	-	-	*	*	909	12.52	*	*
Oil Seeds .....	430245	1643	0.38	711	0.17	50395	11.71	2779	0.65
Neug .....	232260	379	0.16	293	0.13	24671	10.62	380	0.16
Linseed .....	102076	276	0.27	75	0.07	7620	7.47	2043	2
Ground nuts .....	16480	82	0.5	84	0.51	3424	20.78	77	0.47
Sufflower .....	5550	257	4.63	43	0.77	792	14.27	25	0.45
Sesame .....	58835	322	0.55	161	0.27	3977	6.76	127	0.22
Rapeseed .....	15044	327	2.17	55	0.37	9911	65.88	127	0.84
Other Grains .....	46803	926	1.98	2270	4.85	7113	15.2	1057	2.26
Vegetables .....	98262	532	0.54	6398	6.51	50158	51.05	2858	2.91
Lettuce .....	213	20	9.39	145	68.08	149	69.95	28	13.15
Head cabbage .....	965	62	6.42	526	54.51	570	59.07	120	12.44
Kale .....	24398	56	0.23	457	1.87	13833	56.7	360	1.48
Tomatoes .....	3035	212	6.99	1990	65.57	1869	61.58	836	27.55
Green peppers .....	4633	40	0.86	1013	21.86	2388	51.54	105	2.27
Red peppers .....	55198	110	0.2	2134	3.87	26942	48.81	1368	2.48
Swiss chard .....	158	20	12.66	45	28.48	74	46.84	*	*
Others .....	9662	12	0.12	88	0.91	4334	44.86	37	0.38
Root Crops .....	269478	1312	0.49	28161	10.45	161575	59.96	8459	3.14
Beet root .....	669	64	9.57	247	36.92	406	60.69	*	*
Carrot .....	827	107	12.94	279	33.74	555	67.11	8	0.97
Onions .....	19787	606	3.06	7101	35.89	10899	55.08	2017	10.19
Potatoes .....	162854	295	0.18	17306	10.63	110475	67.84	5138	3.15
Garlic .....	5985	11	0.18	738	12.33	3279	54.79	37	0.62
Taro ('Godere') .....	26092	29	0.11	93	0.36	10317	39.54	230	0.88
Sweet potatoes .....	46343	197	0.43	1953	4.21	23108	49.86	917	1.98
Others .....	6921	3	0.04	445	6.43	2536	36.64	104	1.5
Permanent Crops .....	644752	12841	1.99	31555	4.89	253774	39.36	6667	1.03
Fruit Crops .....	40076	454	1.13	5865	14.63	10615	26.49	165	0.41
Avocado .....	2414	68	2.82	80	3.31	628	26.01	1	0.04
Bananas .....	21268	95	0.45	3687	17.34	5398	25.38	19	0.09
Guava (Zeytuna) .....	1224	94	7.68	298	24.35	416	33.99	5	0.41
Lemons .....	749	6	0.8	197	26.3	192	25.63	2	0.27
Mangoes .....	3642	57	1.57	297	8.15	1110	30.48	*	*
Oranges .....	2402	28	1.17	435	18.11	828	34.47	24	1
Papayas .....	2713	76	2.8	468	17.25	792	29.19	*	*
Pineapples .....	171	*	*	*	*	8	4.68	-	-
Others .....	5494	28	0.51	404	7.35	1241	22.59	*	*
Stimulant Crops .....	358381	12086	3.37	21385	5.97	90475	25.25	5904	1.65
Chat .....	96066	-	-	10830	11.27	40591	42.25	4174	4.34
Coffee .....	243834	12086	4.96	8494	3.48	40831	16.75	1617	0.66
Hops .....	18448	-	-	2060	11.17	9038	48.99	113	0.61
Others .....	*	-	-	*	*	*	*	-	-
Other Permanent Crops .....	246294	302	0.12	4306	1.75	152684	61.99	598	0.24
Enset .....	233492	248	0.11	1066	0.46	148906	63.77	515	0.22
Sugar Cane .....	11775	30	0.25	3191	27.1	3385	28.75	74	0.63
Others .....	1027	23	2.24	49	4.77	394	38.36	10	0.97

TABLE 6.1.1: RURAL MEHER

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectare	Hectare	%	Hectare	%	Hectare	%	Hectare	%
TOTAL .....	8699882	260614	3	98702	1.13	3428876	39.41	730999	8.4
Grain Crops .....	7854225	246712	3.14	56524	0.72	3071825	39.11	719547	9.16
Cereals .....	6370106	239029	3.75	49824	0.78	2842279	44.62	704006	11.05
Teff .....	1818375	9750	0.54	8486	0.47	922689	50.74	299282	16.46
Barley .....	771515	3159	0.41	3809	0.49	326432	42.31	74127	9.61
Wheat .....	1005000	19359	1.93	3177	0.32	587104	58.42	284241	28.28
Maize .....	1323038	201605	15.24	21955	1.66	670393	50.67	20632	1.56
Sorghum .....	1132496	4034	0.36	11327	1	190691	16.84	12410	1.1
Finger millet .....	281455	867	0.31	495	0.18	136640	48.55	10117	3.59
Oats ('Aja') .....	29863	74	0.25	120	0.4	7522	25.19	3020	10.11
Rice .....	8365	181	2.16	*	*	808	9.66	177	2.12
Pulses .....	1016787	5188	0.51	4231	0.42	172753	16.99	11880	1.17
Horse/Faba beans .....	369151	1388	0.38	864	0.23	96117	26.04	3590	0.97
Field peas .....	175222	751	0.43	247	0.14	32618	18.62	5178	2.96
Haricot beans .....	119879	1056	0.88	582	0.49	22840	19.05	756	0.63
Chick peas .....	184801	1276	0.69	1226	0.66	9891	5.35	997	0.54
Lentils .....	60138	279	0.46	361	0.6	3976	6.61	419	0.7
Vetch/Grass peas .....	83523	260	0.31	811	0.97	3176	3.8	793	0.95
Soya .....	1769	144	8.14	*	*	861	48.67	43	2.43
Fenugreek .....	15051	34	0.23	99	0.66	2370	15.75	102	0.68
Gibto .....	7254	-	-	*	*	903	12.45	*	*
Oil Seeds .....	426130	1639	0.38	675	0.16	50134	11.76	2752	0.65
Neug .....	232201	379	0.16	293	0.13	24670	10.62	380	0.16
Linseed .....	98596	275	0.28	57	0.06	7513	7.62	2020	2.05
Ground nuts .....	16035	82	0.51	75	0.47	3284	20.48	74	0.46
Sunflower .....	5474	*	*	36	0.66	782	14.29	23	0.42
Sesame .....	58780	322	0.55	158	0.27	3975	6.76	127	0.22
Rapeseed .....	15044	327	2.17	55	0.37	9910	65.87	127	0.84
Other Grains .....	41202	856	2.08	1793	4.35	6659	16.16	910	2.21
Vegetables .....	84029	278	0.33	3200	3.81	42375	50.43	1909	2.27
Lettuce .....	128	11	8.59	71	55.47	86	67.19	24	18.75
Head cabbage .....	564	30	5.32	236	41.84	336	59.57	57	10.11
Kale .....	14528	23	0.16	170	1.17	8409	57.88	62	0.43
Tomatoes .....	1545	77	4.98	752	48.67	895	57.93	357	23.11
Green peppers .....	3728	14	0.38	453	12.15	1931	51.8	45	1.21
Red peppers .....	54376	104	0.19	1452	2.67	26623	48.96	1341	2.47
Swiss chard .....	116	7	6.03	10	8.62	49	42.24	*	*
Others .....	9042	11	0.12	57	0.63	4046	44.75	22	0.24
Root Crops .....	116876	783	0.67	7423	6.35	60901	52.11	2876	2.46
Beet root .....	405	44	10.86	87	21.48	245	60.49	*	*
Carrot .....	578	86	14.88	139	24.05	380	65.74	*	*
Onions .....	10489	349	3.33	2410	22.98	6132	58.46	837	7.98
Potatoes .....	36736	116	0.32	2259	6.15	24607	66.98	1522	4.14
Garlic .....	4802	7	0.15	385	8.02	2644	55.06	24	0.5
Taro ('Godere') .....	23591	29	0.12	60	0.25	9154	38.8	46	0.19
Sweet potatoes .....	34027	149	0.44	1660	4.88	15640	45.96	347	1.02
Others .....	6249	3	0.05	422	6.75	2098	33.57	90	1.44
Permanent Crops .....	644752	12841	1.99	31555	4.89	253774	39.36	6667	1.03
Fruit Crops .....	40076	454	1.13	5865	14.63	10615	26.49	165	0.41
Avocado .....	2414	68	2.82	80	3.31	628	26.01	1	0.04
Bananas .....	21268	95	0.45	3687	17.34	5398	25.38	19	0.09
Guava (Zeytuna) .....	1224	94	7.68	298	24.35	416	33.99	5	0.41
Lemons .....	749	6	0.8	197	26.3	192	25.63	2	0.27
Mangoes .....	3642	57	1.57	297	8.15	1110	30.48	*	*
Oranges .....	2402	28	1.17	435	18.11	828	34.47	24	1
Papayas .....	2713	76	2.8	468	17.25	792	29.19	*	*
Pineapples .....	171	*	*	*	*	8	4.68	-	-
Others .....	5494	28	0.51	404	7.35	1241	22.59	*	*
Stimulant Crops .....	358381	12086	3.37	21385	5.97	90475	25.25	5904	1.65
Chat .....	96066	-	-	10830	11.27	40591	42.25	4174	4.34
Coffee .....	243834	12086	4.96	8494	3.48	40831	16.75	1617	0.66
Hops .....	18448	-	-	2060	11.17	9038	48.99	113	0.61
Others .....	*	-	-	*	*	*	*	-	-
Other Permanent Crops .....	246294	302	0.12	4306	1.75	152684	61.99	598	0.24
Enset .....	233492	248	0.11	1066	0.46	148906	63.77	515	0.22
Sugar Cane .....	11775	30	0.25	3191	27.1	3385	28.75	74	0.63
Others .....	1027	23	2.24	49	4.77	394	38.36	10	0.97

TABLE 6.1.2: RURAL BELG

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectare	Hectare	%	Hectare	%	Hectare	%	Hectare	%
TOTAL .....	1031441	7059	0.68	71537	6.94	326302	31.64	51365	4.98
Grain Crops .....	864606	6275	0.73	47601	5.51	217846	25.2	44832	5.19
Cereals .....	704770	5721	0.81	41561	5.9	181559	25.76	42944	6.09
Teff .....	49868	1091	2.19	3479	6.98	7146	14.33	4696	9.42
Barley .....	183721	298	0.16	4104	2.23	50556	27.52	10602	5.77
Wheat .....	60711	147	0.24	1458	2.4	13805	22.74	8617	14.19
Maize .....	351191	4015	1.14	30737	8.75	97547	27.78	10986	3.13
Sorghum .....	44458	139	0.31	1088	2.45	9707	21.83	7074	15.91
Finger millet .....	1271	*	*	24	1.89	324	25.49	131	10.31
Oats ('Aja') .....	13548	*	*	669	4.94	2473	18.25	839	6.19
Rice .....	*	-	-	*	*	*	*	-	-
Pulses .....	150120	481	0.32	5527	3.68	35571	23.7	1714	1.14
Horse/Faba .....	2519	*	*	65	2.58	625	24.81	33	1.31
Field peas .....	28803	*	*	249	0.86	2629	9.13	173	0.6
Haricot beans .....	86892	384	0.44	1186	1.36	29865	34.37	1227	1.41
Chick peas .....	10180	*	*	1863	18.3	1287	12.64	139	1.37
Lentils .....	15306	*	*	793	5.18	698	4.56	9	0.06
Vetch/Grass peas .....	1463	*	*	514	35.13	79	5.4	*	*
Soya .....	32	-	-	*	*	9	28.13	-	-
Fenugreek .....	4915	7	0.14	857	17.44	373	7.59	110	2.24
Gibto .....	9	-	-	*	*	*	*	-	-
Oil Seeds .....	4116	*	*	37	0.9	261	6.34	*	*
Neug .....	59	-	-	*	*	*	*	-	-
Linseed .....	3480	*	*	*	*	107	3.07	*	*
Ground nuts .....	445	*	*	*	*	*	*	*	*
Sufflower .....	76	*	*	*	*	10	13.16	*	*
Sesame .....	55	*	*	*	*	3	5.45	-	-
Rapeseed .....	*	-	-	*	*	*	*	-	-
Other Grains .....	5601	*	*	477	8.52	454	8.11	147	2.62
Vegetables .....	14233	254	1.78	3198	22.47	7783	54.68	950	6.67
Lettuce .....	85	9	10.59	75	88.24	62	72.94	*	*
Head cabbage .....	401	32	7.98	291	72.57	234	58.35	63	15.71
Kale .....	9870	33	0.33	287	2.91	5424	54.95	298	3.02
Tomatoes .....	1490	134	8.99	1238	83.09	973	65.3	479	32.15
Green peppers .....	905	26	2.87	560	61.88	458	50.61	*	*
Red peppers .....	822	6	0.73	682	82.97	319	38.81	27	3.28
Swiss chard .....	42	12	28.57	36	85.71	25	59.52	*	*
Others .....	620	*	*	30	4.84	288	46.45	15	2.42
Root Crops .....	152602	529	0.35	20738	13.59	100673	65.97	5583	3.66
Beet root .....	264	20	7.58	160	60.61	161	60.98	*	*
Carrot .....	249	21	8.43	139	55.82	176	70.68	6	2.41
Onions .....	9299	257	2.76	4691	50.45	4767	51.26	1179	12.68
Potatoes .....	126118	179	0.14	15047	11.93	85868	68.09	3616	2.87
Garlic .....	1183	*	*	353	29.84	634	53.59	13	1.1
Taro ('Godere') .....	2501	*	*	32	1.28	1163	46.5	184	7.36
Sweet potatoes .....	12316	47	0.38	293	2.38	7468	60.64	571	4.64
Others .....	672	-	-	23	3.42	438	65.18	14	2.08

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	
	Hectare	Hectare	%	Hectare	%	Hectare	%	Hectare	%
TOTAL .....	161289	12882	7.99	5496	3.41	62755	38.91	31950	19.81
Grain Crops.....	132810	10582	7.97	2396	1.8	54588	41.1	30422	22.91
Cereals .....	112551	10188	9.05	2229	1.98	51813	46.04	29562	26.27
Teff .....	27707	1129	4.07	482	1.74	16270	58.72	10730	38.73
Barley.....	10441	250	2.39	103	0.99	5052	48.39	2865	27.44
Wheat.....	24100	2201	9.13	114	0.47	17129	71.07	13540	56.18
Maize .....	27808	6243	22.45	1146	4.12	10399	37.4	1315	4.73
Sorghum.....	18246	292	1.6	363	1.99	1583	8.68	705	3.86
Finger millet .....	3368	63	1.87	17	0.5	1215	36.07	266	7.9
Oats ('Aja').....	776	*	*	2	0.26	153	19.72	132	17.01
Rice.....	106	6	5.66	3	2.83	11	10.38	9	8.49
Pulses .....	11302	255	2.26	138	1.22	2235	19.78	526	4.65
Horse/Faba beans ....	3327	39	1.17	10	0.3	843	25.34	142	4.27
Field peas .....	1658	13	0.78	4	0.24	344	20.75	128	7.72
Haricot beans .....	2764	160	5.79	49	1.77	679	24.57	100	3.62
Chick peas .....	1459	20	1.37	27	1.85	112	7.68	77	5.28
Lentils .....	663	7	1.06	18	2.71	59	8.9	24	3.62
Vetch/Grass peas ....	1030	5	0.49	29	2.82	51	4.95	38	3.69
Soya .....	94	9	9.57	-	-	*	*	-	-
Fenugreek .....	274	3	1.09	*	*	48	17.52	18	6.57
Gibto .....	*	-	-	*	*	*	*	-	-
Oil Seeds .....	7926	124	1.56	15	0.19	394	4.97	288	3.63
Neug.....	1941	*	*	*	*	156	8.04	14	0.72
Linseed.....	1546	21	1.36	*	*	130	8.41	59	3.82
Ground nuts .....	448	3	0.67	2	0.45	24	5.36	1	0.22
Sufflower .....	12	-	-	-	-	*	*	-	-
Sesame .....	3912	*	*	*	*	27	0.69	211	5.39
Rapeseed.....	*	*	*	*	*	*	*	*	*
Other Grains .....	1032	*	*	15	1.45	147	14.24	45	4.36
Vegetables .....	2010	174	8.66	520	25.87	1028	51.14	352	17.51
Lettuce .....	35	9	25.71	34	97.14	31	88.57	2	5.71
Head cabbage.....	27	*	*	22	81.48	16	59.26	10	37.04
Kale.....	530	20	3.77	101	19.06	303	57.17	*	*
Tomatoes .....	265	70	26.42	221	83.4	192	72.45	205	77.36
Green peppers.....	40	*	*	22	55	16	40	13	32.5
Red peppers .....	1004	21	2.09	29	2.89	379	37.75	67	6.67
Swiss chard .....	*	*	*	*	*	*	*	2	*
Others.....	25	*	*	*	*	*	*	*	*
Root Crops .....	3453	*	*	776	22.47	1705	49.38	665	19.26
Beet root .....	18	*	*	14	77.78	14	77.78	*	*
Carrot.....	*	*	*	*	*	*	*	9	*
Onions.....	657	109	16.59	389	59.21	494	75.19	279	42.47
Potatoes.....	1292	25	1.93	135	10.45	518	40.09	190	14.71
Garlic .....	58	6	10.34	14	24.14	31	53.45	4	6.9
Taro ('Godere') .....	414	1	0.24	*	*	155	37.44	*	*
Sweet potatoes.....	548	13	2.37	13	2.37	247	45.07	*	*
Others.....	256	*	*	*	*	43	16.8	*	*
Permanent Crops.....	23016	1809	7.86	1804	7.84	5433	23.61	511	2.22
Fruit Crops .....	2386	167	7	550	23.05	720	30.18	90	3.77
Avocado.....	505	32	6.34	*	*	252	49.9	*	*
Bananas.....	670	*	*	163	24.33	190	28.36	17	2.54
Guava (Zeytuna).....	204	8	3.92	66	32.35	27	13.24	*	*
Lemons.....	48	*	*	38	79.17	*	*	*	*
Mangoes.....	359	19	5.29	57	15.88	85	23.68	6	1.67
Oranges .....	157	*	*	42	26.75	36	22.93	7	4.46
Papayas .....	270	24	8.89	104	38.52	80	29.63	39	14.44
Pineapples.....	1	*	*	*	*	*	*	*	*
Others.....	173	*	*	22	12.72	28	16.18	10	5.78
Stimulant Crops .....	14899	1600	10.74	762	5.11	2268	15.22	397	2.66
Chat.....	1538	-	-	346	22.5	524	34.07	218	14.17
Coffee .....	12711	1592	12.52	316	2.49	1489	11.71	101	0.79
Hops .....	650	8	1.23	100	15.38	254	39.08	*	*
Others.....	*	-	-	-	-	-	-	-	-
Other Permanent Crops .....	5731	43	0.75	492	8.58	2445	42.66	24	0.42
Enset .....	4467	35	0.78	151	3.38	2073	46.41	8	0.18
Sugar Cane.....	1233	7	0.57	326	26.44	*	*	15	1.22
Others.....	31	*	*	*	*	7	22.58	*	*

TABLE 6.3: AREA OF CROPLAND UNDER IMPROVED FARM MANAGEMENT PRACTICES BY CROP  
CATEGORY IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	9892611	280554	2.84	175736	1.78	3817932	38.59	814314	8.23
Tigray	568761	7265	1.28	19050	3.35	249588	43.88	9065	1.59
Afar	11650	1159	9.95	8739	75.01	1329	11.41	1076	9.24
Amhara	3200280	87033	2.72	56596	1.77	1067390	33.35	47930	1.5
Oromia	4433706	158037	3.56	63423	1.43	1876828	42.33	633646	14.29
Somali	78105	1000	1.28	3101	3.97	8321	10.65	273	0.35
Benishangul-Gumuz	147367	3554	2.41	1225	0.83	23687	16.07	1269	0.86
S.N.N.P.R	1394194	21053	1.51	21230	1.52	562469	40.34	118915	8.53
Gambella	16580	492	2.97	17	0.1	648	3.91	117	0.71
Harari	9369	89	0.95	315	3.36	5298	56.55	169	1.8
Addis Ababa	24286	719	2.96	*	*	19400	79.88	1779	7.33
Dire Dawa	8313	153	1.84	1487	17.89	2974	35.78	75	0.9

TABLE 6.3.1: RURAL HOLDINGS

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	9731322	267672	2.75	170240	1.75	3755178	38.59	782364	8.04
Tigray	557418	6794	1.22	18423	3.31	245896	44.11	8383	1.5
Afar	11015	1090	9.9	8132	73.83	1210	10.99	954	8.66
Amhara	3176634	85403	2.69	55710	1.75	1061119	33.4	46720	1.47
Oromia	4340480	149568	3.45	61428	1.42	1837712	42.34	608864	14.03
Somali	76271	921	1.21	2911	3.82	8012	10.5	156	0.2
Benishangul-Gumuz	141716	3302	2.33	1182	0.83	23061	16.27	1074	0.76
S.N.N.P.R	1373689	19651	1.43	20723	1.51	552601	40.23	115296	8.39
Gambella	15671	442	2.82	*	*	636	4.06	108	0.69
Harari	9062	76	0.84	290	3.2	5124	56.54	120	1.32
Addis Ababa	21244	292	1.37	39	0.18	16861	79.37	633	2.98
Dire Dawa	8122	131	1.61	1393	17.15	2947	36.28	57	0.7

TABLE 6.3.2: RURAL MEHER

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
National	8699882	260614	3	98702	1.13	3428876	39.41	730999	8.4
Tigray	544351	6295	1.16	10633	1.95	241649	44.39	8224	1.51
Afar	10085	946	9.38	7399	73.37	1057	10.48	935	9.27
Amhara	2953354	84839	2.87	23582	0.8	995839	33.72	44843	1.52
Oromia	3868591	145645	3.76	37871	0.98	1705012	44.07	579480	14.98
Somali	68257	892	1.31	2615	3.83	7311	10.71	152	0.22
Benishangul-Gumuz	140811	3265	2.32	726	0.52	22730	16.14	1044	0.74
S.N.N.P.R	1064743	17842	1.68	14420	1.35	430364	40.42	95461	8.97
Gambella	12684	421	3.32	*	*	593	4.68	84	0.66
Harari	8073	76	0.94	246	3.05	4768	59.06	117	1.45
Addis Ababa	21196	285	1.34	15	0.07	16834	79.42	623	2.94
Dire Dawa	7737	106	1.37	1188	15.35	2719	35.14	*	*

TABLE 6.3.3: RURAL BELG

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1031441	7059	0.68	71537	6.94	326302	31.64	51365	4.98
Tigray	13067	499	3.82	7790	59.62	4247	32.5	160	1.22
Afar	929	*	*	733	78.9	152	16.36	*	*
Amhara	223280	563	0.25	32129	14.39	65280	29.24	1876	0.84
Oromia	471888	3924	0.83	23557	4.99	132700	28.12	29384	6.23
Somali	8015	29	0.36	296	3.69	701	8.75	*	*
Benishangul-Gumuz	905	*	*	456	50.39	331	36.57	30	3.31
S.N.N.P.R	308946	1809	0.59	6302	2.04	122237	39.57	19835	6.42
Gambella	2987	21	0.7	*	*	43	1.44	24	0.8
Harari	989	*	*	*	*	356	36	*	*
Addis Ababa	49	7	14.29	24	48.98	27	55.1	*	*
Dire Dawa	385	*	*	205	53.25	227	58.96	20	5.19

TABLE 6.3.4: URBAN HOLDINGS

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	161289	12882	7.99	5496	3.41	62755	38.91	31950	19.81
Tigray	11343	470	4.14	627	5.53	3692	32.55	682	6.01
Afar	635	69	10.87	607	95.59	119	18.74	121	19.06
Amhara	23646	1630	6.89	886	3.75	6271	26.52	1211	5.12
Oromia	93226	8469	9.08	1995	2.14	39116	41.96	24782	26.58
Somali	1834	79	4.31	189	10.31	309	16.85	117	6.38
Benishangul-Gumuz	5651	252	4.46	43	0.76	626	11.08	195	3.45
S.N.N.P.R	20506	1402	6.84	508	2.48	9868	48.12	3620	17.65
Gambella	909	50	5.5	*	*	*	*	10	1.1
Harari	307	13	4.23	24	7.82	174	56.68	*	*
Addis Ababa	3042	427	14.04	*	*	2539	83.46	1145	37.64
Dire Dawa	190	22	11.58	95	50	28	14.74	18	9.47

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

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	8851641	263569	2.98	106522	1.2	3344260	37.78	794802	8.98
Tigray	558419	6831	1.22	15771	2.82	245412	43.95	8898	1.59
Afar	10674	928	8.69	7794	73.02	863	8.09	739	6.92
Amhara	3079336	86016	2.79	32411	1.05	999942	32.47	46355	1.51
Oromia	3972917	145859	3.67	32924	0.83	1690485	42.55	621369	15.64
Somali	69027	910	1.32	2113	3.06	6852	9.93	228	0.33
Benishangul-Gumuz	142109	3397	2.39	470	0.33	22059	15.52	1256	0.88
S.N.N.P.R	969679	18749	1.93	13898	1.43	353223	36.43	114009	11.76
Gambella	11816	223	1.89	*	*	542	4.59	112	0.95
Harari	7061	88	1.25	148	2.1	3816	54.04	77	1.09
Addis Ababa	23531	436	1.85	30	0.13	18761	79.73	1710	7.27
Dire Dawa	7071	134	1.9	953	13.48	2305	32.6	49	0.69

TABLE 6.4.1: RURAL HOLDINGS

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	8718831	252987	2.9	104125	1.19	3289672	37.73	764380	8.77
Tigray	547444	6403	1.17	15384	2.81	241829	44.17	8250	1.51
Afar	10158	918	9.04	7295	71.82	846	8.33	729	7.18
Amhara	3056907	84542	2.77	32142	1.05	994201	32.52	45308	1.48
Oromia	3897164	138882	3.56	32142	0.82	1654572	42.46	597417	15.33
Somali	67278	836	1.24	1953	2.9	6575	9.77	116	0.17
Benishangul-Gumuz	136741	3162	2.31	459	0.34	21484	15.71	1062	0.78
S.N.N.P.R	956970	17576	1.84	13718	1.43	346946	36.25	110671	11.56
Gambella	11392	211	1.85	*	*	529	4.64	103	0.9
Harari	6850	75	1.09	136	1.99	3703	54.06	62	0.91
Addis Ababa	21005	267	1.27	*	*	16696	79.49	622	2.96
Dire Dawa	6922	116	1.68	891	12.87	2289	33.07	41	0.59

TABLE 6.4.2: RURAL MEHER

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	7854225	246712	3.14	56524	0.72	3071825	39.11	719547	9.16
Tigray	536165	6111	1.14	9318	1.74	238752	44.53	8175	1.52
Afar	9391	*	*	6725	71.61	763	8.12	726	7.73
Amhara	2898100	84198	2.91	14539	0.5	965374	33.31	44328	1.53
Oromia	3475511	135167	3.89	15567	0.45	1556467	44.78	572091	16.46
Somali	59404	810	1.36	1695	2.85	5885	9.91	112	0.19
Benishangul-Gumuz	136250	3159	2.32	103	0.08	21342	15.66	1035	0.76
S.N.N.P.R	697388	15843	2.27	7692	1.1	260548	37.36	92291	13.23
Gambella	8470	190	2.24	1	0.01	487	5.75	79	0.93
Harari	5900	75	1.27	101	1.71	3366	57.05	61	1.03
Addis Ababa	20981	266	1.27	*	*	16689	79.54	622	2.96
Dire Dawa	6665	101	1.52	783	11.75	2153	32.3	*	*

TABLE 6.4.3: RURAL BELG

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	864606	6275	0.73	47601	5.51	217846	25.2	44832	5.19
Tigray	11279	291	2.58	6066	53.78	3077	27.28	74	0.66
Afar	767	*	*	571	74.45	84	10.95	3	0.39
Amhara	158807	344	0.22	17604	11.09	28827	18.15	980	0.62
Oromia	421653	3715	0.88	16574	3.93	98105	23.27	25326	6.01
Somali	7874	26	0.33	258	3.28	690	8.76	*	*
Benishangul-Gumuz	491	*	*	356	72.51	142	28.92	27	5.5
S.N.N.P.R	259582	1733	0.67	6026	2.32	86398	33.28	18380	7.08
Gambella	2922	21	0.72	*	*	42	1.44	24	0.82
Harari	950	-	-	*	*	338	35.58	*	*
Addis Ababa	*	*	*	*	*	*	*	-	-
Dire Dawa	257	*	*	109	42.41	136	52.92	13	5.06

TABLE 6.4.4: URBAN HOLDINGS

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	132810	10582	7.97	2396	1.8	54588	41.1	30422	22.91
Tigray	10974	428	3.9	387	3.53	3583	32.65	648	5.9
Afar	516	*	*	498	96.51	16	3.1	10	1.94
Amhara	22429	1474	6.57	269	1.2	5741	25.6	1047	4.67
Oromia	75753	6977	9.21	782	1.03	35913	47.41	23952	31.62
Somali	1750	74	4.23	160	9.14	277	15.83	112	6.4
Benishangul-Gumuz	5368	235	4.38	11	0.2	575	10.71	194	3.61
S.N.N.P.R	12709	1174	9.24	180	1.42	6277	49.39	3338	26.26
Gambella	425	*	*	*	*	*	*	9	2.12
Harari	211	12	5.69	12	5.69	113	53.55	15	7.11
Addis Ababa	2526	169	6.69	29	1.15	2065	81.75	1088	43.07
Dire Dawa	149	*	*	62	41.61	15	10.07	8	5.37

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

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	7187427	254938	3.55	93615	1.3	3075651	42.79	776512	10.8
Tigray	481417	6568	1.36	13761	2.86	234415	48.69	8265	1.72
Afar	9514	*	*	6872	72.23	838	8.81	215	2.26
Amhara	2350342	82237	3.5	26325	1.12	919631	39.13	43083	1.83
Oromia	3334057	142934	4.29	30938	0.93	1576029	47.27	609866	18.29
Somali	66091	859	1.3	2002	3.03	6663	10.08	199	0.3
Benishangul-Gumuz	107884	3082	2.86	391	0.36	18456	17.11	1184	1.1
S.N.N.P.R	796706	18094	2.27	12202	1.53	295845	37.13	111812	14.03
Gambella	11036	220	1.99	*	*	533	4.83	92	0.83
Harari	5301	73	1.38	143	2.7	3205	60.46	59	1.11
Addis Ababa	18246	427	2.34	24	0.13	17847	97.81	1690	9.26
Dire Dawa	6832	126	1.84	946	13.85	2188	32.03	47	0.69

TABLE 6.5.1: RURAL HOLDINGS

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	7074876	244750	3.46	91386	1.29	3023838	42.74	746949	10.56
Tigray	472275	6169	1.31	13387	2.83	230986	48.91	7648	1.62
Afar	9006	*	*	6382	70.86	824	9.15	*	*
Amhara	2333370	80816	3.46	26115	1.12	914092	39.17	42312	1.81
Oromia	3267760	136240	4.17	30194	0.92	1541803	47.18	586340	17.94
Somali	64407	786	1.22	1883	2.92	6424	9.97	111	0.17
Benishangul-Gumuz	104321	2860	2.74	381	0.37	17971	17.23	1001	0.96
S.N.N.P.R	785182	16934	2.16	12025	1.53	290087	36.95	108545	13.82
Gambella	10659	208	1.95	*	*	522	4.9	83	0.78
Harari	5115	61	1.19	133	2.6	3100	60.61	46	0.9
Addis Ababa	16098	259	1.61	*	*	15857	98.5	619	3.85
Dire Dawa	6683	108	1.62	884	13.23	2173	32.52	39	0.58

TABLE 6.5.2: RURAL MEHER

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	6370106	239029	3.75	49824	0.78	2842279	44.62	704006	11.05
Tigray	462526	5895	1.27	8449	1.83	228134	49.32	7580	1.64
Afar	8291	*	*	5813	70.11	745	8.99	*	*
Amhara	2216029	80596	3.64	11815	0.53	888625	40.1	41609	1.88
Oromia	2911616	132791	4.56	14488	0.5	1453490	49.92	561590	19.29
Somali	57041	765	1.34	1631	2.86	5778	10.13	108	0.19
Benishangul-Gumuz	103942	2856	2.75	96	0.09	17851	17.17	974	0.94
S.N.N.P.R	575655	15340	2.66	6658	1.16	226369	39.32	91192	15.84
Gambella	7877	188	2.39	1	0.01	480	6.09	59	0.75
Harari	4625	61	1.32	97	2.1	2920	63.14	45	0.97
Addis Ababa	16078	259	1.61	*	*	15851	98.59	619	3.85
Dire Dawa	6426	93	1.45	775	12.06	2037	31.7	*	*

TABLE 6.5.2a: Teff

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1818375	9750	0.54	8486	0.47	922689	50.74	299282	16.46
Tigray	124699	1000	0.8	2410	1.93	64494	51.72	3013	2.42
Afar	695	*	*	-	-	116	16.69	21	3.02
Amhara	778202	4589	0.59	3329	0.43	351170	45.13	18022	2.32
Oromia	762120	2323	0.3	1395	0.18	436740	57.31	240690	31.58
Somali	*	-	-	-	-	-	-	-	-
Benishangul-Gumuz	10737	*	*	*	*	3281	30.56	207	1.93
S.N.N.P.R	133882	1727	1.29	1351	1.01	58972	44.05	36853	27.53
Gambella	5	-	-	-	-	-	-	-	-
Harari	*	-	-	-	-	*	*	-	-
Addis Ababa	7983	99	1.24	-	-	7916	99.16	475	5.95
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.5.2b: Barley

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	771515	3159	0.41	3809	0.49	326432	42.31	74127	9.61
Tigray	53238	698	1.31	683	1.28	27128	50.96	1523	2.86
Afar	21	-	-	-	-	6	28.57	*	*
Amhara	274628	1010	0.37	2309	0.84	73359	26.71	2326	0.85
Oromia	367426	1187	0.32	782	0.21	192097	52.28	65297	17.77
Somali	6512	*	*	*	*	*	*	*	*
Benishangul-Gumuz	1047	*	*	-	-	360	34.38	-	-
S.N.N.P.R	68463	231	0.34	29	0.04	33089	48.33	4968	7.26
Gambella	9	-	-	-	-	-	-	-	-
Harari	18	-	-	-	-	*	*	-	-
Addis Ababa	148	*	*	-	-	88	59.46	*	*
Dire Dawa	*	-	-	*	*	*	*	-	-

TABLE 6.5.2c: Wheat

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1005000	19359	1.93	3177	0.32	587104	58.42	284241	28.28
Tigray	63216	3019	4.78	1224	1.94	31041	49.1	1874	2.96
Afar	50	-	-	-	-	5	10	*	*
Amhara	286247	3855	1.35	956	0.33	123142	43.02	9961	3.48
Oromia	545923	11142	2.04	899	0.16	363230	66.54	228652	41.88
Somali	8354	114	1.36	*	*	815	9.76	*	*
Benishangul-Gumuz	891	*	*	-	-	416	46.69	*	*
S.N.N.P.R	92352	1050	1.14	*	*	60555	65.57	43598	47.21
Gambella	*	-	-	-	-	-	-	-	-
Harari	100	*	*	*	*	83	83	-	-
Addis Ababa	7864	160	2.03	-	-	7816	99.39	134	1.7
Dire Dawa	*	-	-	*	*	*	*	-	-

TABLE 6.5.2d: Maize

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1323038	201605	15.24	21955	1.66	670393	50.67	20632	1.56
Tigray	52218	456	0.87	1072	2.05	39750	76.12	534	1.02
Afar	6100	*	*	5688	93.25	561	9.2	*	*
Amhara	296356	69109	23.32	2273	0.77	211905	71.5	2536	0.86
Oromia	729462	116765	16.01	7201	0.99	342780	46.99	14958	2.05
Somali	20847	381	1.83	854	4.1	2500	11.99	*	*
Benishangul-Gumuz	20482	2530	12.35	62	0.3	8223	40.15	136	0.66
S.N.N.P.R	191490	11990	6.26	4660	2.43	63696	33.26	2191	1.14
Gambella	5110	143	2.8	1	0.02	418	8.18	52	1.02
Harari	668	37	5.54	*	*	458	68.56	*	*
Addis Ababa	47	-	-	*	*	21	44.68	-	-
Dire Dawa	257	*	*	108	42.02	82	31.91	-	-

TABLE 6.5.2e: Sorghum

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1132496	4034	0.36	11327	1	190691	16.84	12410	1.1
Tigray	114059	482	0.42	2940	2.58	37102	32.53	227	0.2
Afar	1405	5	0.36	105	7.47	56	3.99	*	*
Amhara	409473	1496	0.37	2110	0.52	37150	9.07	2230	0.54
Oromia	437398	1211	0.28	4127	0.94	97210	22.22	7479	1.71
Somali	20824	233	1.12	697	3.35	2145	10.3	*	*
Benishangul-Gumuz	52375	139	0.27	*	*	3790	7.24	124	0.24
S.N.N.P.R	84276	338	0.4	596	0.71	8861	10.51	2230	2.65
Gambella	2664	39	1.46	-	-	54	2.03	*	*
Harari	3835	14	0.37	*	*	2366	61.69	35	0.91
Addis Ababa	27	-	-	-	-	*	*	-	-
Dire Dawa	6160	79	1.28	666	10.81	1952	31.69	*	*

TABLE 6.5.2f: Finger Millet

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	281455	867	0.31	495	0.18	136640	48.55	10117	3.59
Tigray	54693	240	0.44	118	0.22	28567	52.23	392	0.72
Afar	*	-	-	*	*	-	-	-	-
Amhara	155527	367	0.24	*	*	90321	58.07	6467	4.16
Oromia	49336	117	0.24	47	0.1	15045	30.49	1496	3.03
Somali	*	-	-	-	-	*	*	-	-
Benishangul-Gumuz	17279	142	0.82	*	*	1699	9.83	495	2.86
S.N.N.P.R	4527	*	*	-	-	1005	22.2	1267	27.99
Gambella	48	*	*	-	-	*	*	-	-
Harari	*	*	*	-	-	*	*	-	-
Addis Ababa	*	-	-	-	-	*	*	-	-
Dire Dawa	*	-	-	-	-	-	-	-	-

TABLE 6.5.2g: Oats ('Aja')

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	29863	74	0.25	120	0.4	7522	25.19	3020	10.11
Tigray	404	-	-	*	*	52	12.87	*	*
Afar	-	-	-	-	-	-	-	-	-
Amhara	8996	20	0.22	79	0.88	1102	12.25	17	0.19
Oromia	19367	45	0.23	37	0.19	6168	31.85	2925	15.1
Somali	433	*	*	-	-	*	*	-	-
Benishangul-Gumuz	28	-	-	-	-	9	32.14	-	-
S.N.N.P.R	627	*	*	*	*	161	25.68	60	9.57
Gambella	*	-	-	-	-	-	-	-	-
Harari	*	-	-	-	-	*	*	-	-
Addis Ababa	*	-	-	-	-	*	*	-	-
Dire Dawa	*	-	-	-	-	-	-	-	-

TABLE 6.5.2h: Rice

[illegible]

TABLE 6.5.3: RURAL BELG

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	704770	5721	0.81	41561	5.9	181559	25.76	42944	6.09
Tigray	9749	273	2.8	4938	50.65	2852	29.25	68	0.7
Afar	715	*	*	569	79.58	79	11.05	3	0.42
Amhara	117341	220	0.19	14300	12.19	25467	21.7	703	0.6
Oromia	356144	3449	0.97	15706	4.41	88313	24.8	24750	6.95
Somali	7366	20	0.27	252	3.42	646	8.77	*	*
Benishangul-Gumuz	379	*	*	285	75.2	120	31.66	27	7.12
S.N.N.P.R	209526	1595	0.76	5366	2.56	63718	30.41	17353	8.28
Gambella	2783	21	0.75	*	*	42	1.51	23	0.83
Harari	*	-	-	*	*	*	*	*	*
Addis Ababa	*	-	-	-	-	*	*	-	-
Dire Dawa	257	*	*	108	42.02	136	52.92	13	5.06

TABLE 6.5.4: URBAN HOLDINGS

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	112551	10188	9.05	2229	1.98	51813	46.04	29562	26.27
Tigray	9142	399	4.36	375	4.1	3429	37.51	617	6.75
Afar	508	*	*	490	96.46	14	2.76	9	1.77
Amhara	16972	1421	8.37	210	1.24	5539	32.64	770	4.54
Oromia	66297	6694	10.1	744	1.12	34227	51.63	23526	35.49
Somali	1684	73	4.33	119	7.07	239	14.19	88	5.23
Benishangul-Gumuz	3563	223	6.26	11	0.31	485	13.61	183	5.14
S.N.N.P.R	11525	1160	10.07	177	1.54	5758	49.96	3267	28.35
Gambella	377	*	*	*	*	*	*	9	2.39
Harari	186	12	6.45	11	5.91	105	56.45	13	6.99
Addis Ababa	2147	168	7.82	24	1.12	1990	92.69	1072	49.93
Dire Dawa	149	*	*	62	41.61	15	10.07	8	5.37

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

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1178209	5924	0.5	9896	0.84	210559	17.87	14121	1.2
Tigray	44930	186	0.41	1970	4.38	8662	19.28	599	1.33
Afar	155	*	*	8	5.16	14	9.03	*	*
Amhara	531666	2557	0.48	5422	1.02	54286	10.21	2506	0.47
Oromia	428361	2330	0.54	1653	0.39	90684	21.17	8943	2.09
Somali	1905	49	2.57	87	4.57	174	9.13	*	*
Benishangul-Gumuz	6969	197	2.83	70	1	1656	23.76	*	*
S.N.N.P.R	158072	586	0.37	674	0.43	53908	34.1	2014	1.27
Gambella	225	*	*	-	-	5	2.22	*	*
Harari	474	-	-	*	*	169	35.65	*	*
Addis Ababa	5248	9	0.17	*	*	903	17.21	19	0.36
Dire Dawa	204	*	*	*	*	99	48.53	*	*

TABLE 6.6.1: RURAL HOLDINGS

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1166907	5668	0.49	9758	0.84	208325	17.85	13594	1.16
Tigray	44201	179	0.4	1959	4.43	8529	19.3	583	1.32
Afar	155	*	*	8	5.16	14	9.03	*	*
Amhara	529087	2536	0.48	5368	1.01	54146	10.23	2432	0.46
Oromia	421840	2129	0.5	1621	0.38	89354	21.18	8593	2.04
Somali	1848	49	2.65	52	2.81	144	7.79	*	*
Benishangul-Gumuz	6790	185	2.72	70	1.03	1571	23.14	*	*
S.N.N.P.R	157196	573	0.36	672	0.43	53464	34.01	1964	1.25.0
Gambella	224	*	*	-	-	5	2.23	*	*
Harari	470	-	-	*	*	165	35.11	*	*
Addis Ababa	4893	8	0.16	*	*	835	17.07	*	*
Dire Dawa	204	*	*	*	*	99	48.53	*	*

TABLE 6.6.2: RURAL MEHER

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1016787	5188	0.51	4231	0.42	172753	16.99	11880	1.17
Tigray	42715	162	0.38	860	2.01	8333	19.51	576	1.35
Afar	103	*	*	*	*	9	8.74	*	*
Amhara	488184	2482	0.51	2271	0.47	50816	10.41	2235	0.46
Oromia	363961	1862	0.51	778	0.21	79735	21.91	8075	2.22
Somali	1347	44	3.27	49	3.64	99	7.35	*	*
Benishangul-Gumuz	6684	185	2.77	*	*	1549	23.17	*	*
S.N.N.P.R	108560	438	0.4	257	0.24	31262	28.8	974	0.9
Gambella	116	*	*	-	-	5	4.31	*	*
Harari	26	-	-	*	*	12	46.15	-	-
Addis Ababa	4889	*	*	-	-	834	17.06	*	*
Dire Dawa	204	*	*	*	*	99	48.53	*	*

TABLE 6.6.2a: Horse/Faba beans

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	369151	1388	0.38	864	0.23	96117	26.04	3590	0.97
Tigray	14988	89	0.59	223	1.49	4599	30.68	168	1.12
Afar	*	-	-	-	-	-	-	-	-
Amhara	168945	761	0.45	531	0.31	33219	19.66	620	0.37
Oromia	137378	440	0.32	90	0.07	42001	30.57	2504	1.82
Somali	*	-	-	-	-	-	-	-	-
Benishangul-Gumuz	583	*	*	-	-	241	41.34	*	*
S.N.N.P.R	47008	96	0.2	20	0.04	15989	34.01	293	0.62
Gambella	*	-	-	-	-	*	*	-	-
Harari	*	-	-	*	*	*	*	-	-
Addis Ababa	231	*	*	-	-	*	*	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.6.2b: Field Peas

Geographic	Total Crop	Improved Seed	Irrigated	Fertilizer	Pesticide
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Area	Area	Area	%	Area	%	Area	%	Area	%
National	175222	751	0.43	247	0.14	32618	18.62	5178	2.96
Tigray	3398	7	0.21	80	2.35	736	21.66	31	0.91
Afar	*	-	-	-	-	-	-	-	-
Amhara	78145	364	0.47	120	0.15	8179	10.47	483	0.62
Oromia	64707	283	0.44	*	*	15866	24.52	4066	6.28
Somali	86	*	*	-	-	*	*	-	-
Benishangul-Gumuz	719	*	*	-	-	256	35.61	-	-
S.N.N.P.R	28104	96	0.34	27	0.1	7574	26.95	597	2.12
Gambella	*	-	-	-	-	*	*	-	-
Harari	*	-	-	-	-	*	*	-	-
Addis Ababa	54	*	*	-	-	*	*	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.6.2c: Haricot beans

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	119879	1056	0.88	582	0.49	22840	19.05	756	0.63
Tigray	2293	23	1	*	*	268	11.69	292	12.73
Afar	35	*	*	*	*	*	*	*	*
Amhara	22518	113	0.5	32	0.14	1228	5.45	148	0.66
Oromia	63451	637	1	299	0.47	14748	23.24	288	0.45
Somali	678	38	5.6	48	7.08	90	13.27	*	*
Benishangul-Gumuz	3779	43	1.14	*	*	347	9.18	*	*
S.N.N.P.R	26799	194	0.72	187	0.7	6044	22.55	19	0.07
Gambella	112	*	*	-	-	4	3.57	*	*
Harari	11	-	-	-	-	7	63.64	-	-
Addis Ababa	1	-	-	-	-	*	*	-	-
Dire Dawa	201	*	*	*	*	97	48.26	*	*

TABLE 6.6.2d: Chick Peas

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	184801	1276	0.69	1226	0.66	9891	5.35	997	0.54
Tigray	11159	20	0.18	387	3.47	1578	14.14	51	0.46
Afar	60	-	-	-	-	*	*	-	-
Amhara	109432	*	*	599	0.55	3457	3.16	296	0.27
Oromia	55645	199	0.36	228	0.41	3146	5.65	634	1.14
Somali	407	*	*	*	*	*	*	-	-
Benishangul-Gumuz	368	*	*	*	*	46	12.5	-	-
S.N.N.P.R	5177	*	*	*	*	1198	23.14	*	*
Gambella	*	-	-	-	-	-	-	-	-
Harari	*	-	-	-	-	*	*	-	-
Addis Ababa	2544	*	*	-	-	454	17.85	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.6.2e: Lentils

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	60138	279	0.46	361	0.6	3976	6.61	419	0.7
Tigray	4587	12	0.26	125	2.73	419	9.13	*	*

Afar	3	-	-	-	-	*	*	-	-
Amhara	40121	86	0.21	*	*	1501	3.74	98	0.24
Oromia	14003	158	1.13	*	*	1709	12.2	301	2.15
Somali	84	*	*	-	-	-	-	-	-
Benishangul-Gumuz	42	-	-	*	*	17	40.48	-	-
S.N.N.P.R	739	*	*	*	*	209	28.28	*	*
Gambella	*	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	*	-	-	-	-	*	*	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.6.2f: Vetch/Grass peas

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	83523	260	0.31	811	0.97	3176	3.8	793	0.95
Tigray	5795	*	*	*	*	632	10.91	26	0.45
Afar	-	-	-	-	-	-	-	-	-
Amhara	53966	120	0.22	677	1.25	1479	2.74	560	1.04
Oromia	21973	135	0.61	99	0.45	788	3.59	169	0.77
Somali	*	-	-	-	-	-	-	-	-
Benishangul-Gumuz	20	-	-	-	-	2	10	-	-
S.N.N.P.R	453	*	*	*	*	*	*	*	*
Gambella	*	-	-	-	-	*	*	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	1295	-	-	-	-	*	*	*	*
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.6.2g: Soya Beans

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1769	144	8.14	*	*	861	48.67	43	2.43
Tigray	51	*	*	-	-	*	*	-	-
Afar	-	-	-	-	-	-	-	-	-
Amhara	251	-	-	*	*	*	*	-	-
Oromia	254	*	*	*	*	119	46.85	36	14.17
Somali	*	-	-	-	-	-	-	-	-
Benishangul-Gumuz	1132	140	12.37	*	*	630	55.65	*	*
S.N.N.P.R	81	*	*	*	*	36	44.44	*	*
Gambella	*	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.6.2h: Fenugreek

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	15051	34	0.23	99	0.66	2370	15.75	102	0.68
Tigray	444	*	*	9	2.03	86	19.37	*	*
Afar	*	-	-	-	-	-	-	-	-
Amhara	7589	*	*	70	0.92	802	10.57	*	*
Oromia	6549	11	0.17	20	0.31	1358	20.74	76	1.16

Somali	57	-	-	-	-	-	-
Benishangul-Gumuz	*	-	-	*	*	*	*
S.N.N.P.R	198	*	*	-	-	47	23.74
Gambella	*	-	-	-	-	*	*
Harari	*	-	-	-	-	*	*
Addis Ababa	205	-	-	-	-	75	36.59
Dire Dawa	*	-	-	-	-	*	*

TABLE 6.6.2i: Gibto

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	7254	-	-	*	*	903	12.45	*	*
Tigray	-	-	-	-	-	-	-	-	-
Afar	-	-	-	-	-	-	-	-	-
Amhara	7217	-	-	*	*	891	12.35	*	*
Oromia	-	-	-	-	-	-	-	-	-
Somali	-	-	-	-	-	-	-	-	-
Benishangul-Gumuz	36	-	-	-	-	*	*	-	-
S.N.N.P.R	-	-	-	*	-	*	-	-	-
Gambella	*	-	-	-	-	*	*	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.6.3: RURAL BELG

Geographic Area	Total Crop Area	Pulses							
		Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	150120	481	0.32	5527	3.68	35571	23.7	1714	1.14
Tigray	1487	*	*	1099	73.91	196	13.18	*	*
Afar	52	*	*	*	*	4	7.69	-	-
Amhara	40903	*	*	3098	7.57	3331	8.14	197	0.48
Oromia	57879	266	0.46	843	1.46	9618	16.62	518	0.89
Somali	501	*	*	*	*	45	8.98	*	*
Benishangul-Gumuz	105	*	*	67	63.81	21	20	*	*
S.N.N.P.R	48636	135	0.28	415	0.85	22202	45.65	990	2.04
Gambella	108	-	-	-	-	*	*	*	*
Harari	445	-	-	-	-	153	34.38	*	*
Addis Ababa	*	*	*	*	*	*	*	-	-
Dire Dawa	*	-	-	*	*	-	-	-	-

TABLE 6.6.4: URBAN HOLDINGS

Geographic Area	Total Crop Area	Pulses							
		Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	11302	255	2.26	138	1.22	2235	19.78	526	4.65
Tigray	729	7	0.96	11	1.51	133	18.24	16	2.19
Afar	-	-	-	-	-	-	-	-	-
Amhara	2579	21	0.81	54	2.09	139	5.39	74	2.87
Oromia	6521	201	3.08	32	0.49	1331	20.41	350	5.37
Somali	57	-	-	34	59.65	30	52.63	*	*
Benishangul-Gumuz	179	12	6.7	*	*	*	*	*	*

S.N.N.P.R	876	13	1.48	2	0.23	444	50.68	50	5.71
Gambella	1	-	-	-	-	-	-	-	-
Harari	*	-	-	*	*	*	*	*	*
Addis Ababa	355	*	*	*	*	69	19.44	17	4.79
Dire Dawa	-	-	-	-	-	-	-	-	-

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

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	438171	1768	0.4	726	0.17	50789	11.59	3067	0.7
Tigray	31740	74	0.23	7	0.02	2256	7.11	32	0.1
Afar	142	*	*	*	*	3	2.11	*	*
Amhara	178999	890	0.5	370	0.21	23734	13.26	631	0.35
Oromia	194335	572	0.29	203	0.1	21674	11.15	2269	1.17
Somali	505	*	*	*	*	*	*	*	*
Benishangul-Gumuz	26861	116	0.43	4	0.01	1910	7.11	61	0.23
S.N.N.P.R	3843	32	0.83	15	0.39	727	18.92	31	0.81
Gambella	389	*	*	*	*	*	*	*	*
Harari	1285	*	*	*	*	442	34.4	*	*
Addis Ababa	37	-	-	-	-	10	27.03	*	*
Dire Dawa	34	-	-	*	*	17	50	-	-

TABLE 6.7.1: RURAL HOLDINGS

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	430245	1643	0.38	711	0.17	50395	11.71	2779	0.65
Tigray	30647	52	0.17	6	0.02	2242	7.32	19	0.06
Afar	142	*	*	*	*	3	2.11	*	*
Amhara	176562	872	0.49	368	0.21	23694	13.42	439	0.25.0
Oromia	191636	489	0.26	198	0.1	21359	11.15	2204	1.15
Somali	497	*	*	*	*	*	*	-	-
Benishangul-Gumuz	25244	116	0.46	4	0.02	1906	7.55	50	0.2
S.N.N.P.R	3838	32	0.83	15	0.39	725	18.89	31	0.81
Gambella	366	*	*	-	-	*	*	*	*
Harari	1264	*	*	*	*	437	34.57	*	*
Addis Ababa	14	-	-	-	-	*	*	*	*
Dire Dawa	34	-	-	*	*	17	50	-	-

TABLE 6.7.2: RURAL MEHER

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	426130	1639	0.38	675	0.16	50134	11.76	2752	0.65
Tigray	30634	52	0.17	6	0.02	2240	7.31	19	0.06
Afar	142	*	*	*	*	3	2.11	*	*
Amhara	176212	872	0.49	358	0.2	23668	13.43	439	0.25
Oromia	188392	489	0.26	179	0.1	21270	11.29	2181	1.16
Somali	493	*	*	*	*	*	*	-	-

Benishangul-Gumuz	25244	116	0.46	3	0.01	1905	7.55	50	0.2
S.N.N.P.R	3370	28	0.83	11	0.33	585	17.36	27	0.8
Gambella	345	*	*	-	-	*	*	*	*
Harari	1249	*	*	*	*	433	34.67	*	*
Addis Ababa	14	-	-	-	-	*	*	*	*
Dire Dawa	34	-	-	*	*	17	50	-	-

TABLE 6.7.2a: Neug

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	232201	379	0.16	293	0.13	24670	10.62	380	0.16
Tigray	5135	10	0.19	*	*	567	11.04	*	*
Afar	1	-	-	-	-	*	*	-	-
Amhara	119548	230	0.19	*	*	13909	11.63	135	0.11
Oromia	93154	123	0.13	62	0.07	9166	9.84	205	0.22
Somali	*	-	-	-	-	-	-	-	-
Benishangul-Gumuz	13433	*	*	*	*	849	6.32	*	*
S.N.N.P.R	925	*	*	*	*	178	19.24	-	-
Gambella	*	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	*	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.7.2b: Linseed

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	98596	275	0.28	57	0.06	7513	7.62	2020	2.05
Tigray	4318	8	0.19	*	*	376	8.71	5	0.12
Afar	*	-	-	*	*	-	-	-	-
Amhara	23824	65	0.27	23	0.1	1655	6.95	*	*
Oromia	68819	196	0.28	*	*	5237	7.61	1814	2.64
Somali	445	-	-	-	-	-	-	-	-
Benishangul-Gumuz	200	-	-	*	*	23	11.5	*	*
S.N.N.P.R	969	6	0.62	*	*	217	22.39	27	2.79
Gambella	*	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	12	-	-	-	-	*	*	*	*
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.7.2c: Ground nuts

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	16035	82	0.51	75	0.47	3284	20.48	74	0.46
Tigray	*	-	-	-	-	*	*	-	-
Afar	*	*	*	*	*	*	*	-	-
Amhara	*	*	*	*	*	26	*	-	-
Oromia	10096	13	0.13	62	0.61	2707	26.81	*	*
Somali	*	*	*	-	-	*	*	-	-
Benishangul-Gumuz	2388	*	*	*	*	44	1.84	*	*
S.N.N.P.R	521	*	*	*	*	51	9.79	*	*
Gambella	26	*	*	-	-	*	*	-	-
Harari	1240	*	*	*	*	431	34.76	*	*



TABLE 6.7.3: RURAL BELG

[illegible]

TABLE 6.7.4: URBAN HOLDINGS

[illegible]

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

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	47834	940	1.97	2285	4.78	7261	15.18	1102	2.3
Tigray	332	*	*	*	*	79	23.8	*	*
Afar	*	*	*	*	*	*	*	*	*
Amhara	18329	*	*	294	1.6	2292	12.5	136	0.74
Oromia	16164	24	0.15	130	0.8	2097	12.97	291	1.8
Somali	526	-	-	*	*	*	*	-	-
Benishangul-Gumuz	395	*	*	*	*	37	9.37	-	-
S.N.N.P.R	11058	*	*	1007	9.11	2744	24.81	152	1.37
Gambella	166	*	*	-	-	*	*	*	*
Harari	*	-	-	*	*	*	*	-	-
Addis Ababa	*	-	-	-	-	*	*	-	-
Dire Dawa	*	-	-	*	*	*	*	-	-

TABLE 6.8.1: RURAL HOLDINGS

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	46803	926	1.98	2270	4.85	7113	15.2	1057	2.26
Tigray	321	*	*	*	*	72	22.43	-	-
Afar	*	*	*	*	*	*	*	*	*
Amhara	17888	*	*	291	1.63	2268	12.68	124	0.69
Oromia	15928	23	0.14	128	0.8	2056	12.91	280	1.76
Somali	526	-	-	*	*	*	*	-	-
Benishangul-Gumuz	386	*	*	*	*	37	9.59	-	-
S.N.N.P.R	10755	*	*	1006	9.35	2671	24.83	131	1.22
Gambella	142	*	*	-	-	*	*	*	*
Harari	*	-	-	*	*	*	*	-	-
Addis Ababa	*	-	-	-	-	*	*	-	-
Dire Dawa	*	-	-	*	*	*	*	-	-

TABLE 6.8.2: RURAL MEHER

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	41202	856	2.08	1793	4.35	6659	16.16	910	2.21
Tigray	291	*	*	3	1.03	45	15.46	-	-
Afar	*	*	*	*	*	*	*	*	*
Amhara	17675	*	*	94	0.53	2265	12.81	*	*
Oromia	11542	23	0.2	122	1.06	1971	17.08	245	2.12
Somali	523	-	-	*	*	*	*	-	-
Benishangul-Gumuz	379	*	*	*	*	37	9.76	-	-
S.N.N.P.R	9803	*	*	765	7.8	2332	23.79	98	1
Gambella	132	*	*	-	-	*	*	-	-
Harari	*	-	-	*	*	*	*	-	-
Addis Ababa	*	-	-	-	-	*	*	-	-
Dire Dawa	*	-	-	*	*	*	*	-	-

TABLE 6.8.3: RURAL BELG

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	5601	*	*	477	8.52	454	8.11	147	2.62
Tigray	*	*	*	*	*	*	*	-	-
Afar	*	-	-	*	*	-	-	-	-
Amhara	213	*	*	196	92.02	*	*	79	37.09
Oromia	4386	-	-	6	0.14	84	1.92	*	*
Somali	*	-	-	-	-	-	-	-	-
Benishangul-Gumuz	*	-	-	*	*	*	*	-	-
S.N.N.P.R	952	*	*	*	*	339	35.61	33	3.47
Gambella	10	-	-	-	-	*	*	*	*
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.8.4: URBAN HOLDINGS

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1032	*	*	15	1.45	147	14.24	45	4.36
Tigray	11	-	-	1	9.09	*	*	*	*
Afar	*	*	*	*	*	*	*	1	*
Amhara	441	*	*	4	0.91	23	5.22	*	*
Oromia	236	*	*	2	0.85	41	17.37	11	4.66
Somali	-	-	-	-	-	-	-	-	-
Benishangul-Gumuz	*	-	-	-	-	-	-	-	-
S.N.N.P.R	303	*	*	*	*	74	24.42	*	*
Gambella	24	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

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

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	100272	705	0.7	6918	6.9	51186	51.05	3210	3.2
Tigray	2094	123	5.87	819	39.11	1468	70.11	46	2.2
Afar	239	81	33.89	230	96.23	81	33.89	56	23.43
Amhara	19607	96	0.49	2194	11.19	11176	57	87	0.44
Oromia	38126	222	0.58	3086	8.09	18418	48.31	1881	4.93
Somali	115	*	*	54	46.96	41	35.65	1	0.87
Benishangul-Gumuz	1587	8	0.5	37	2.33	539	33.96	7	0.44
S.N.N.P.R	37531	87	0.23	209	0.56	19158	51.05	1068	2.85
Gambella	615	*	*	*	*	18	2.93	*	*
Harari	29	*	*	*	*	12	41.38	*	*
Addis Ababa	245	*	*	203	82.86	206	84.08	*	*
Dire Dawa	84	*	*	73	86.9	69	82.14	6	7.14

TABLE 6.9.1: RURAL HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	98262	532	0.54	6398	6.51	50158	51.05	2858	2.91
Tigray	2055	115	5.6	794	38.64	1438	69.98	44	2.14
Afar	180	*	*	176	97.78	*	*	*	*
Amhara	19445	88	0.45	2149	11.05	11091	57.04	68	0.35
Oromia	37280	188	0.5	2895	7.77	17960	48.18	1662	4.46
Somali	105	*	*	47	44.76	39	37.14	-	-
Benishangul-Gumuz	1485	4	0.27	36	2.42	532	35.82	7	0.47
S.N.N.P.R	36947	74	0.2	202	0.55	18942	51.27	1054	2.85
Gambella	611	*	*	*	*	18	2.95	*	*
Harari	25	*	*	*	*	12	48	*	*
Addis Ababa	46	4	8.7	18	39.13	27	58.7	*	*
Dire Dawa	83	*	*	72	86.75	69	83.13	6	7.23

TABLE 6.9.2: RURAL MEHER

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	84029	278	0.33	3200	3.81	42375	50.43	1909	2.27
Tigray	1393	34	2.44	156	11.2	1041	74.73	*	*
Afar	67	*	*	*	*	2	2.99	*	*
Amhara	17964	55	0.31	1276	7.1	10320	57.45	27	0.15
Oromia	32773	102	0.31	1472	4.49	15474	47.22	956	2.92
Somali	97	*	*	43	44.33	38	39.18	-	-
Benishangul-Gumuz	1448	1	0.07	9	0.62	515	35.57	5	0.35
S.N.N.P.R	29657	49	0.17	149	0.5	14930	50.34	904	3.05
Gambella	562	*	*	*	*	17	3.02	*	*
Harari	7	*	*	*	*	5	71.43	-	-
Addis Ababa	33	*	*	4	12.12	14	42.42	*	*
Dire Dawa	30	*	*	27	90	19	63.33	*	*

TABLE 6.9.2a: Lettuce

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	128	11	8.59	71	55.47	86	67.19	24	18.75
Tigray	9	*	*	7	77.78	5	55.56	-	-
Afar	-	-	-	-	-	-	-	-	-
Amhara	*	*	*	*	*	*	*	*	*
Oromia	102	*	*	60	58.82	73	71.57	24	23.53
Somali	*	-	-	-	-	*	*	-	-
Benishangul-Gumuz	*	-	-	*	*	*	*	-	-
S.N.N.P.R	3	*	*	*	*	*	*	-	-
Gambella	-	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	*	*	*	*	*	*	*	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.9.2b: Head cabbage

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	564	30	5.32	236	41.84	336	59.57	57	10.11
Tigray	15	*	*	13	86.67	7	46.67	-	-
Afar	-	-	-	-	-	-	-	-	-
Amhara	69	*	*	20	28.99	32	46.38	*	*
Oromia	377	16	4.24	197	52.25	259	68.7	*	*
Somali	*	*	*	*	*	*	*	-	-
Benishangul-Gumuz	2	*	*	-	-	1	50	-	-
S.N.N.P.R	90	4	4.44	*	*	34	37.78	*	*
Gambella	*	-	-	-	-	-	-	-	-
Harari	*	*	*	*	*	*	*	-	-
Addis Ababa	3	*	*	*	*	3	100.00	*	*
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.9.2c: Kale

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	14528	23	0.16	170	1.17	8409	57.88	62	0.43
Tigray	13	*	*	*	*	*	*	-	-
Afar	*	-	-	*	*	-	-	*	*
Amhara	295	*	*	18	6.1	163	55.25	*	*
Oromia	5183	11	0.21	76	1.47	3188	61.51	30	0.58
Somali	*	-	-	*	*	*	*	-	-
Benishangul-Gumuz	*	*	*	-	-	5	*	-	-
S.N.N.P.R	8964	*	*	73	0.81	5033	56.15	29	0.32
Gambella	22	-	-	-	-	*	*	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	14	*	*	*	*	8	57.14	*	*
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.9.2d: Tomatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1545	77	4.98	752	48.67	895	57.93	357	23.11
Tigray	76	10	13.16	34	44.74	49	64.47	*	*
Afar	*	*	*	*	*	*	*	*	*
Amhara	273	*	*	36	13.19	74	27.11	*	*
Oromia	961	21	2.19	545	56.71	700	72.84	352	36.63
Somali	60	*	*	29	48.33	*	*	-	-
Benishangul-Gumuz	5	-	-	*	*	2	40	-	-
S.N.N.P.R	76	*	*	23	30.26	18	23.68	*	*
Gambella	8	*	*	*	*	*	*	*	*
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	*	-	-	-	-	*	*	-	-
Dire Dawa	29	*	*	27	93.1	19	65.52	*	*

TABLE 6.9.2e: Green peppers

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	3728	14	0.38	453	12.15	1931	51.8	45	1.21

Tigray	186	*	*	33	17.74	118	63.44	*	*
Afar	2	-	-	*	*	*	*	-	-
Amhara	659	*	*	144	21.85	364	55.24	-	-
Oromia	2202	2	0.09	234	10.63	1178	53.5	*	*
Somali	13	-	-	*	*	*	*	-	-
Benishangul-Gumuz	25	*	*	*	*	13	52	-	-
S.N.N.P.R	635	3	0.47	29	4.57	254	40	*	*
Gambella	5	-	-	-	-	*	*	-	-
Harari	*	-	-	-	-	*	*	-	-
Addis Ababa	1	-	-	-	-	*	*	-	-
Dire Dawa	*	-	-	*	*	*	*	-	-

TABLE 6.9.2f: Red peppers

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	54376	104	0.19	1452	2.67	26623	48.96	1341	2.47
Tigray	654	1	0.15	60	9.17	437	66.82	*	*
Afar	5	-	-	*	*	1	20	*	*
Amhara	15950	38	0.24	1045	6.55	9243	57.95	22	0.14
Oromia	20867	41	0.2	335	1.61	8338	39.96	453	2.17
Somali	*	-	-	-	-	-	-	-	-
Benishangul-Gumuz	816	*	*	6	0.74	327	40.07	4	0.49
S.N.N.P.R	16057	*	*	*	*	8276	51.54	858	5.34
Gambella	20	-	-	-	-	*	*	-	-
Harari	*	-	-	-	-	*	*	-	-
Addis Ababa	-	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.9.2g: Swiss chard

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	116	7	6.03	10	8.62	49	42.24	*	*
Tigray	10	*	*	6	60	5	50	*	*
Afar	-	-	-	-	-	-	-	-	-
Amhara	22	1	4.55	1	4.55	13	59.09	*	*
Oromia	40	1	2.5	2	5	11	27.5	-	-
Somali	-	-	-	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	-	-	*	*	-	-
S.N.N.P.R	45	*	*	*	*	*	*	-	-
Gambella	*	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	*	*	*	*	*	*	*	*	*
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.9.2h: Other Vegetables

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	9042	11	0.12	57	0.63	4046	44.75	22	0.24
Tigray	*	*	*	*	*	*	*	*	*
Afar	*	-	-	*	*	*	*	-	-
Amhara	683	*	*	9	1.32	426	62.37	*	*

Oromia	3041	*	*	23	0.76	1728	56.82	7	0.23
Somali	*	-	-	-	-	*	*	-	-
Benishangul-Gumuz	565	*	*	*	*	166	29.38	*	*
S.N.N.P.R	3788	*	*	19	0.5	1294	34.16	*	*
Gambella	506	-	-	-	-	11	2.17	*	*
Harari	6	-	-	-	-	5	83.33	-	-
Addis Ababa	*	*	*	*	*	3	*	*	*
Dire Dawa	*	-	-	-	-	-	-	-	-

TABLE 6.5.3: RURAL BELG

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	14233	254	1.78	3198	22.47	7783	54.68	950	6.67
Tigray	663	81	12.22	638	96.23	397	59.88	36	5.43
Afar	*	*	*	*	*	*	*	-	-
Amhara	1481	33	2.23	873	58.95	770	51.99	40	2.7
Oromia	4507	86	1.91	1422	31.55	2486	55.16	705	15.64
Somali	8	-	-	4	50	1	12.5	-	-
Benishangul-Gumuz	37	3	8.11	27	72.97	17	45.95	2	5.41
S.N.N.P.R	7289	26	0.36	53	0.73	4012	55.04	149	2.04
Gambella	49	-	-	-	-	*	*	-	-
Harari	*	-	-	*	*	*	*	*	*
Addis Ababa	*	3	*	*	*	*	*	*	*
Dire Dawa	54	*	*	45	83.33	50	92.59	*	*

TABLE 6.5.4: URBAN HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	2010	174	8.66	520	25.87	1028	51.14	352	17.51
Tigray	39	*	*	25	64.1	30	76.92	2	5.13
Afar	59	*	*	54	91.53	*	*	53	89.83
Amhara	162	8	4.94	44	27.16	85	52.47	20	12.35
Oromia	847	34	4.01	191	22.55	458	54.07	220	25.97
Somali	10	-	-	7	70	2	20	1	10
Benishangul-Gumuz	102	*	*	*	*	7	6.86	-	-
S.N.N.P.R	585	12	2.05	7	1.2	217	37.09	14	2.39
Gambella	4	-	-	-	-	-	-	*	*
Harari	*	*	*	*	*	*	*	-	-
Addis Ababa	199	*	*	186	93.47	179	89.95	*	*
Dire Dawa	*	*	*	*	*	1	*	-	-

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

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	272931	1628	0.6	28937	10.6	163280	59.82	9124	3.34
Tigray	1981	183	9.24	1406	70.97	1203	60.73	59	2.98
Afar	344	*	*	338	98.26	280	81.4	281	81.69
Amhara	79242	356	0.45	16120	20.34	44669	56.37	1056	1.33
Oromia	86631	458	0.53	9133	10.54	56380	65.08	5628	6.5
Somali	847	*	*	134	15.82	65	7.67	*	*
Benishangul-Gumuz	1171	*	*	83	7.09	430	36.72	*	*
S.N.N.P.R	101599	215	0.21	1326	1.31	59683	58.74	2079	2.05
Gambella	384	*	*	*	*	12	3.13	*	*
Harari	112	*	*	*	*	65	58.04	*	*
Addis Ababa	461	*	*	*	*	*	*	16	3.47
Dire Dawa	161	*	*	80	49.69	80	49.69	*	*

TABLE 6.10.1: RURAL HOLDINGS

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	269478	1312	0.49	28161	10.45	161575	59.96	8459	3.14
Tigray	1945	180	9.25	1384	71.16	1181	60.72	56	2.88
Afar	285	*	*	285	100.00	228	80	223	78.25.0
Amhara	78999	341	0.43	16035	20.3	44565	56.41	1040	1.32
Oromia	84995	389	0.46	8824	10.38	55655	65.48	5248	6.17
Somali	830	*	*	122	14.7	58	6.99	*	*
Benishangul-Gumuz	1152	*	*	83	7.2	413	35.85	*	*
S.N.N.P.R	100456	196	0.2	1322	1.32	59190	58.92	1885	1.88
Gambella	380	*	*	*	*	12	3.16	*	*
Harari	110	*	*	*	*	64	58.18	*	*
Addis Ababa	167	21	12.57	19	11.38	129	77.25	*	*
Dire Dawa	160	*	*	79	49.38	79	49.38	*	*

TABLE 6.10.2: RURAL MEHER

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	116876	783	0.67	7423	6.35	60901	52.11	2876	2.46
Tigray	820	53	6.46	298	36.34	409	49.88	7	0.85
Afar	236	*	*	236	100.00	*	*	206	87.29
Amhara	16007	155	0.97	2383	14.89	8882	55.49	185	1.16
Oromia	39267	267	0.68	3265	8.31	23545	59.96	1896	4.83
Somali	697	*	*	88	12.63	48	6.89	*	*
Benishangul-Gumuz	775	*	*	9	1.16	241	31.1	*	*
S.N.N.P.R	58382	146	0.25	1098	1.88	27363	46.87	580	0.99
Gambella	363	*	*	*	*	12	3.31	*	*
Harari	88	-	-	*	*	52	59.09	-	-
Addis Ababa	157	18	11.46	*	*	122	77.71	*	*
Dire Dawa	85	-	-	28	32.94	38	44.71	-	-

TABLE 6.10.2a: Beetroot

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	405	44	10.86	87	21.48	245	60.49	*	*
Tigray	*	*	*	*	*	*	*	-	-
Afar	-	-	-	-	-	-	-	-	-
Amhara	55	12	21.82	7	12.73	24	43.64	*	*
Oromia	276	22	7.97	69	25	179	64.86	*	*
Somali	*	*	*	*	*	*	*	-	-
Benishangul-Gumuz	*	*	*	-	-	*	*	-	-
S.N.N.P.R	59	6	10.17	*	*	35	59.32	*	*
Gambella	*	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	4	*	*	*	*	4	100.00	*	*
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.10.2b: Carrot

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	578	86	14.88	139	24.05	380	65.74	*	*
Tigray	38	*	*	34	89.47	19	50	*	*
Afar	-	-	-	-	-	-	-	-	-
Amhara	111	14	12.61	26	23.42	61	54.95	*	*
Oromia	258	38	14.73	71	27.52	171	66.28	*	*
Somali	-	-	-	-	-	-	-	-	-
Benishangul-Gumuz	1	*	*	-	-	1	100.00	-	-
S.N.N.P.R	35	2	5.71	*	*	17	48.57	*	*
Gambella	*	-	-	-	-	*	*	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	136	18	13.24	*	*	112	82.35	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.10.2c: Onions

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	10489	349	3.33	2410	22.98	6132	58.46	837	7.98
Tigray	266	*	*	151	56.77	124	46.62	*	*
Afar	234	*	*	234	100.00	*	*	206	88.03
Amhara	2228	58	2.6	757	33.98	1340	60.14	169	7.59
Oromia	6280	*	*	1165	18.55	3726	59.33	454	7.23
Somali	226	*	*	*	*	*	*	*	*
Benishangul-Gumuz	19	*	*	1	5.26	9	47.37	-	-
S.N.N.P.R	1220	*	*	*	*	712	58.36	*	*
Gambella	*	-	-	-	-	*	*	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	2	*	*	-	-	1	50	*	*
Dire Dawa	*	-	-	2	*	*	*	-	-

TABLE 6.10.2d: Potatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	36736	116	0.32	2259	6.15	24607	66.98	1522	4.14

Tigray	264	12	4.55	51	19.32	164	62.12	*	*
Afar	*	-	-	-	-	*	*	-	-
Amhara	11099	67	0.6	1321	11.9	6249	56.3	*	*
Oromia	14956	29	0.19	810	5.42	11006	73.59	1190	7.96
Somali	44	-	-	*	*	9	20.45	-	-
Benishangul-Gumuz	102	*	*	*	*	46	45.1	-	-
S.N.N.P.R	10234	8	0.08	*	*	7105	69.43	321	3.14
Gambella	*	-	-	-	-	-	-	-	-
Harari	*	-	-	-	-	*	*	-	-
Addis Ababa	2	-	-	2	100.00	*	*	-	-
Dire Dawa	*	-	-	*	*	*	*	-	-

TABLE 6.10.2e: Garlic

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	4802	7	0.15	385	8.02	2644	55.06	24	0.5
Tigray	161	*	*	47	29.19	70	43.48	*	*
Afar	-	-	-	-	-	-	-	-	-
Amhara	2187	4	0.18	226	10.33	1144	52.31	3	0.14
Oromia	1799	1	0.06	105	5.84	1123	62.42	21	1.17
Somali	269	-	-	*	*	*	*	*	*
Benishangul-Gumuz	21	*	*	*	*	12	57.14	-	-
S.N.N.P.R	351	*	*	*	*	*	*	*	*
Gambella	1	-	-	-	-	*	*	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	12	-	-	*	*	4	33.33	*	*
Dire Dawa	*	-	-	*	*	*	*	-	-

TABLE 6.10.2f: Taro

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	23591	29	0.12	60	0.25	9154	38.8	46	0.19
Tigray	-	-	-	-	-	-	-	-	-
Afar	-	-	-	-	-	-	-	-	-
Amhara	*	-	-	*	*	*	*	-	-
Oromia	5847	20	0.34	6	0.1	3601	61.59	27	0.46
Somali	-	-	-	-	-	-	-	-	-
Benishangul-Gumuz	9	-	-	*	*	5	55.56	-	-
S.N.N.P.R	17498	9	0.05	53	0.3	5540	31.66	19	0.11
Gambella	221	-	-	*	*	8	3.62	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.10.2g: Sweet potatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	34027	149	0.44	1660	4.88	15640	45.96	347	1.02
Tigray	2	*	*	*	*	*	*	-	-
Afar	*	-	-	*	*	*	*	-	-
Amhara	188	*	*	*	*	62	32.98	*	*

Oromia	9558	43	0.45	1038	10.86	3554	37.18	*	*
Somali	154	*	*	51	33.12	*	*	-	-
Benishangul-Gumuz	248	-	-	*	*	90	36.29	-	-
S.N.N.P.R	23644	105	0.44	490	2.07	11869	50.2	226	0.96
Gambella	108	-	-	-	-	4	3.7	*	*
Harari	61	-	-	*	*	28	45.9	-	-
Addis Ababa	*	-	-	*	*	*	*	-	-
Dire Dawa	64	-	-	24	37.5	25	39.06	-	-

TABLE 6.10.2h: Other Root Crops

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	6249	3	0.05	422	6.75	2098	33.57	90	1.44
Tigray	83	-	-	*	*	30	36.14	*	*
Afar	*	*	*	*	*	-	-	-	-
Amhara	124	-	-	*	*	1	0.81	-	-
Oromia	293	*	*	*	*	185	63.14	77	26.28
Somali	-	-	-	-	-	-	-	-	-
Benishangul-Gumuz	373	*	*	*	*	79	21.18	*	*
S.N.N.P.R	5342	*	*	407	7.62	1803	33.75	10	0.19
Gambella	32	*	*	-	-	*	*	*	*
Harari	*	-	-	-	-	*	*	-	-
Addis Ababa	-	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.10.3: RURAL BELG

Geographic Area	Total Crop Area	Root Crops							
		Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	152602	529	0.35	20738	13.59	100673	65.97	5583	3.66
Tigray	1125	127	11.29	1086	96.53	773	68.71	49	4.36
Afar	49	*	*	49	100.00	39	79.59	*	*
Amhara	62992	186	0.3	13652	21.67	35683	56.65	856	1.36
Oromia	45728	123	0.27	5560	12.16	32109	70.22	3353	7.33
Somali	*	*	*	34	*	*	*	-	-
Benishangul-Gumuz	377	*	*	74	19.63	172	45.62	*	*
S.N.N.P.R	42075	50	0.12	224	0.53	31828	75.65	1305	3.1
Gambella	16	-	-	-	-	*	*	-	-
Harari	*	*	*	*	*	*	*	*	*
Addis Ababa	10	*	*	10	100.00	7	70	*	*
Dire Dawa	75	*	*	51	68	41	54.67	*	*

TABLE 6.10.4: URBAN HOLDINGS

Geographic Area	Total Crop Area	Root Crops							
		Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	3453	*	*	776	22.47	1705	49.38	665	19.26
Tigray	37	4	10.81	22	59.46	*	*	3	8.11
Afar	59	*	*	54	91.53	52	88.14	58	98.31
Amhara	243	15	6.17	85	34.98	103	42.39	15	6.17
Oromia	1635	69	4.22	309	18.9	726	44.4	379	23.18
Somali	17	*	*	12	70.59	*	*	*	*

Benishangul-Gumuz	19	*	*	*	*	16	84.21	-	-
S.N.N.P.R	1142	19	1.66	4	0.35	493	43.17	194	16.99
Gambella	4	-	-	-	-	-	-	*	*
Harari	*	-	-	*	*	*	*	-	-
Addis Ababa	*	*	*	*	*	*	*	*	*
Dire Dawa	*	-	-	*	*	*	*	-	-

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

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	667768	14651	2.19	33359	5	259207	38.82	7178	1.07
Tigray	6268	128	2.04	1054	16.82	1505	24.01	63	1.01
Afar	393	*	*	377	95.93	*	*	*	*
Amhara	22095	566	2.56	5871	26.57	11604	52.52	432	1.96
Oromia	336032	11498	3.42	18280	5.44	111546	33.2	4768	1.42
Somali	8116	*	*	800	9.86	1362	16.78	*	*
Benishangul-Gumuz	2501	117	4.68	636	25.43	660	26.39	5	0.2
S.N.N.P.R	285385	2001	0.7	5798	2.03	130404	45.69	1759	0.62
Gambella	3765	269	7.14	*	*	76	2.02	*	*
Harari	2167	*	*	145	6.69	1404	64.79	89	4.11
Addis Ababa	49	*	*	*	*	20	40.82	*	*
Dire Dawa	997	*	*	381	38.21	521	52.26	19	1.91

TABLE 6.11.1: RURAL MEHER

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	644752	12841	1.99	31555	4.89	253774	39.36	6667	1.03
Tigray	5974	97	1.62	861	14.41	1448	24.24	34	0.57
Afar	392	*	*	376	95.92	*	*	*	*
Amhara	21284	432	2.03	5384	25.3	11262	52.91	304	1.43
Oromia	321041	10110	3.15	17567	5.47	109526	34.12	4537	1.41
Somali	8059	*	*	789	9.79	1339	16.61	*	*
Benishangul-Gumuz	2339	105	4.49	605	25.87	632	27.02	4	0.17
S.N.N.P.R	279315	1805	0.65	5482	1.96	127524	45.66	1686	0.6
Gambella	3289	231	7.02	*	*	76	2.31	*	*
Harari	2078	*	*	137	6.59	1345	64.73	56	2.69
Addis Ababa	26	*	*	*	*	10	38.46	*	*
Dire Dawa	957	3	0.31	350	36.57	509	53.19	*	*

TABLE 6.11.2: URBAN HOLDINGS

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	23016	1809	7.86	1804	7.84	5433	23.61	511	2.22
Tigray	294	31	10.54	194	65.99	57	19.39	29	9.86
Afar	1	*	*	1	100.00	*	*	*	*
Amhara	812	134	16.5	488	60.1	342	42.12	128	15.76
Oromia	14991	1388	9.26	713	4.76	2020	13.47	231	1.54

Somali	57	*	*	11	19.3	23	40.35	5	8.77
Benishangul-Gumuz	162	12	7.41	31	19.14	28	17.28	*	*
S.N.N.P.R	6070	196	3.23	317	5.22	2881	47.46	73	1.2
Gambella	476	38	7.98	*	*	*	*	*	*
Harari	90	*	*	8	8.89	59	65.56	*	*
Addis Ababa	24	*	*	*	*	10	41.67	-	-
Dire Dawa	40	*	*	31	77.5	11	27.5	*	*

TABLE 6.12: AREA OF CROPLAND UNDER IMPROVED FARM MANAGEMENT PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	42463	620	1.46	6415	15.11	11335	26.69	255	0.6
Tigray	4400	104	2.36	356	8.09	861	19.57	*	*
Afar	382	*	*	370	96.86	*	*	*	*
Amhara	2061	116	5.63	975	47.31	971	47.11	46	2.23
Oromia	15830	206	1.3	1908	12.05	5694	35.97	*	*
Somali	438	*	*	394	89.95	116	26.48	4	0.91
Benishangul-Gumuz	1171	8	0.68	119	10.16	304	25.96	2	0.17
S.N.N.P.R	17290	116	0.67	2132	12.33	3009	17.4	18	0.1
Gambella	370	*	*	*	*	8	2.16	*	*
Harari	338	*	*	*	*	164	48.52	*	*
Addis Ababa	*	*	*	*	*	*	*	-	-
Dire Dawa	182	*	*	123	67.58	105	57.69	11	6.04

TABLE 6.12.1: RURAL MEHER

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	40076	454	1.13	5865	14.63	10615	26.49	165	0.41
Tigray	4293	87	2.03	261	6.08	834	19.43	*	*
Afar	382	*	*	370	96.86	*	*	*	*
Amhara	1822	71	3.9	789	43.3	840	46.1	18	0.99
Oromia	14819	131	0.88	1792	12.09	5579	37.65	*	*
Somali	423	*	*	389	91.96	112	26.48	*	*
Benishangul-Gumuz	1058	7	0.66	111	10.49	295	27.88	1	0.09
S.N.N.P.R	16438	93	0.57	2025	12.32	2586	15.73	12	0.07
Gambella	361	*	*	*	*	8	2.22	*	*
Harari	335	*	*	*	*	163	48.66	*	*
Addis Ababa	*	*	*	*	*	*	*	-	-
Dire Dawa	144	*	*	92	63.89	94	65.28	*	*

TABLE 6.12.1a: Avocado

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	2414	68	2.82	80	3.31	628	26.01	1	0.04
Tigray	*	*	*	*	*	*	*	-	-
Afar	-	-	-	-	-	-	-	-	-
Amhara	17	*	*	*	*	4	23.53	*	*
Oromia	374	29	7.75	*	*	161	43.05	*	*

Somali	-	-	-	-	-	-	-	-	-
Benishangul-Gumuz	6	*	*	*	*	*	*	-	-
S.N.N.P.R	2008	26	1.29	42	2.09	458	22.81	*	*
Gambella	4	*	*	-	-	*	*	*	*
Harari	*	-	-	*	*	*	*	-	-
Addis Ababa	*	*	*	*	*	*	*	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.12.1b: Bananas

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	21268	95	0.45	3687	17.34	5398	25.38	19	0.09
Tigray	*	*	*	76	*	*	*	*	*
Afar	*	*	*	*	*	*	*	-	-
Amhara	550	15	2.73	298	54.18	202	36.73	*	*
Oromia	8900	44	0.49	1183	13.29	3214	36.11	12	0.13
Somali	189	*	*	183	96.83	27	14.29	-	-
Benishangul-Gumuz	389	2	0.51	79	20.31	92	23.65	-	-
S.N.N.P.R	10792	24	0.22	1711	15.85	1715	15.89	7	0.06
Gambella	181	*	*	*	*	3	1.66	*	*
Harari	11	-	-	*	*	*	*	*	*
Addis Ababa	*	-	-	-	-	-	-	-	-
Dire Dawa	6	-	-	5	83.33	3	50	-	-

TABLE 6.12.1c: Guava

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	1224	94	7.68	298	24.35	416	33.99	5	0.41
Tigray	85	*	*	79	92.94	15	17.65	*	*
Afar	*	-	-	*	*	*	*	-	-
Amhara	181	8	4.42	60	33.15	96	53.04	*	*
Oromia	597	*	*	118	19.77	210	35.18	2	0.34
Somali	*	*	*	*	*	*	*	*	*
Benishangul-Gumuz	14	*	*	*	*	5	35.71	-	-
S.N.N.P.R	232	5	2.16	4	1.72	22	9.48	*	*
Gambella	4	*	*	-	-	*	*	-	-
Harari	69	-	-	*	*	39	56.52	-	-
Addis Ababa	-	-	-	-	-	-	-	-	-
Dire Dawa	*	-	-	*	*	*	*	-	-

TABLE 6.12.1d: Lemons

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	749	6	0.8	197	26.3	192	25.63	2	0.27
Tigray	47	*	*	18	38.3	23	48.94	*	*
Afar	5	*	*	*	*	*	*	*	*
Amhara	203	2	0.99	78	38.42	68	33.5	*	*
Oromia	185	*	*	32	17.3	60	32.43	*	*
Somali	34	*	*	32	94.12	11	32.35	*	*
Benishangul-Gumuz	28	*	*	*	*	8	28.57	*	*
S.N.N.P.R	239	*	*	29	12.13	17	7.11	*	*



Dire Dawa	43	*	*	32	74.42	37	86.05	*	*
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TABLE 6.12.1h: Pineapples

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	171	*	*	*	*	8	4.68	-	-
Tigray	*	-	-	-	-	-	-	-	-
Afar	-	-	-	-	-	-	-	-	-
Amhara	*	*	*	*	*	*	*	-	-
Oromia	22	-	-	*	*	4	18.18	-	-
Somali	-	-	-	-	-	-	-	-	-
Benishangul-Gumuz	*	-	-	*	*	*	*	-	-
S.N.N.P.R	*	-	-	-	-	*	*	-	-
Gambella	2	-	-	-	-	*	*	-	-
Harari	-	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.12.1i: Other Fruit Crops

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	5494	28	0.51	404	7.35	1241	22.59	*	*
Tigray	3990	11	0.28	39	0.98	719	18.02	*	*
Afar	219	-	-	216	98.63	*	*	-	-
Amhara	152	*	*	45	29.61	79	51.97	*	*
Oromia	695	*	*	57	8.2	330	47.48	*	*
Somali	*	-	-	5	*	*	*	-	-
Benishangul-Gumuz	8	*	*	*	*	2	25	-	-
S.N.N.P.R	330	*	*	*	*	47	14.24	*	*
Gambella	1	-	-	-	-	*	*	-	-
Harari	13	*	*	*	*	10	76.92	-	-
Addis Ababa	*	-	-	-	-	*	*	-	-
Dire Dawa	72	*	*	*	*	*	*	*	*

TABLE 6.12.2: URBAN HOLDINGS

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	2386	167	7	550	23.05	720	30.18	90	3.77
Tigray	106	17	16.04	96	90.57	27	25.47	*	*
Afar	*	*	*	*	*	*	*	*	*
Amhara	239	*	*	186	77.82	*	*	28	11.72
Oromia	1011	75	7.42	116	11.47	115	11.37	33	3.26
Somali	15	*	*	5	33.33	4	26.67	*	*
Benishangul-Gumuz	113	1	0.88	8	7.08	9	7.96	*	*
S.N.N.P.R	852	23	2.7	107	12.56	423	49.65	6	0.7
Gambella	9	-	-	-	-	-	-	*	*
Harari	3	*	*	*	*	*	*	-	-
Addis Ababa	*	*	*	*	*	*	*	-	-
Dire Dawa	38	*	*	31	81.58	11	28.95	*	*

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

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	373281	13686	3.67	22147	5.93	92743	24.85	6300	1.69
Tigray	1815	22	1.21	694	38.24	613	33.77	31	1.71
Afar	7	*	*	*	*	*	*	-	-
Amhara	18698	434	2.32	4201	22.47	10060	53.8	373	1.99
Oromia	247465	11114	4.49	14236	5.75	60003	24.25	4419	1.79
Somali	7665	-	-	403	5.26	1246	16.26	*	*
Benishangul-Gumuz	1256	108	8.6	489	38.93	326	25.96	*	*
S.N.N.P.R	90806	1741	1.92	1762	1.94	18820	20.73	1342	1.48
Gambella	2926	265	9.06	*	*	10	0.34	-	-
Harari	1790	*	*	87	4.86	1237	69.11	88	4.92
Addis Ababa	37	*	*	*	*	11	29.73	*	*
Dire Dawa	815	*	*	258	31.66	415	50.92	*	*

TABLE 6.13.1: RURAL MEHER

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	358381	12086	3.37	21385	5.97	90475	25.25	5904	1.65
Tigray	1628	*	*	596	36.61	584	35.87	12	0.74
Afar	7	*	*	*	*	*	*	-	-
Amhara	18190	345	1.9	3936	21.64	9855	54.18	278	1.53
Oromia	236016	9817	4.16	13954	5.91	58839	24.93	4233	1.79
Somali	7624	-	-	398	5.22	1227	16.09	*	*
Benishangul-Gumuz	1212	98	8.09	468	38.61	307	25.33	*	*
S.N.N.P.R	88702	1589	1.79	1687	1.9	18051	20.35	1281	1.44
Gambella	2463	227	9.22	*	*	10	0.41	-	-
Harari	1704	*	*	81	4.75	1179	69.19	*	*
Addis Ababa	23	*	*	*	*	7	30.43	*	*
Dire Dawa	813	*	*	258	31.73	415	51.05	*	*

TABLE 6.13.1a: Chat

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	96066	-	-	10830	11.27	40591	42.25	4174	4.34
Tigray	197	-	-	*	*	*	*	*	*
Afar	*	-	-	*	*	*	*	-	-
Amhara	1874	-	-	505	26.95	1276	68.09	177	9.45
Oromia	66126	-	-	8963	13.55	30793	46.57	3189	4.82
Somali	7596	-	-	376	4.95	1225	16.13	*	*
Benishangul-Gumuz	123	-	-	32	26.02	37	30.08	*	*
S.N.N.P.R	17691	-	-	556	3.14	5685	32.13	704	3.98
Gambella	37	-	-	-	-	*	*	-	-
Harari	1666	-	-	78	4.68	1154	69.27	*	*
Addis Ababa	1	-	-	*	*	1	100.00	-	-
Dire Dawa	752	-	-	210	27.93	382	50.8	*	*

TABLE 6.13.1b: Coffee

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	243834	12086	4.96	8494	3.48	40831	16.75	1617	0.66
Tigray	133	*	*	113	84.96	23	17.29	*	*
Afar	1	*	*	*	*	*	*	-	-
Amhara	6035	345	5.72	2161	35.81	3021	50.06	59	0.98
Oromia	165121	9817	5.95	4595	2.78	25375	15.37	980	0.59
Somali	*	-	-	*	*	*	*	-	-
Benishangul-Gumuz	1032	98	9.5	424	41.09	239	23.16	*	*
S.N.N.P.R	68979	1589	2.3	1123	1.63	12107	17.55	575	0.83
Gambella	2411	227	9.42	*	*	10	0.41	-	-
Harari	34	*	*	*	*	22	64.71	*	*
Addis Ababa	*	*	*	*	*	*	*	-	-
Dire Dawa	61	*	*	48	78.69	33	54.1	*	*

TABLE 6.13.1c: Hops

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	18448	-	-	2060	11.17	9038	48.99	113	0.61
Tigray	1298	-	-	376	28.97	523	40.29	4	0.31
Afar	4	-	-	-	-	*	*	-	-
Amhara	10281	-	-	1269	12.34	5558	54.06	42	0.41
Oromia	4751	-	-	396	8.34	2669	56.18	64	1.35
Somali	*	-	-	-	-	-	-	-	-
Benishangul-Gumuz	58	-	-	12	20.69	31	53.45	*	*
S.N.N.P.R	2017	-	-	7	0.35	246	12.2	*	*
Gambella	14	-	-	-	-	*	*	-	-
Harari	*	-	-	-	-	*	*	-	-
Addis Ababa	22	-	-	*	*	7	31.82	*	*
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.13.2: URBAN HOLDINGS

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	14899	1600	10.74	762	5.11	2268	15.22	397	2.66
Tigray	187	13	6.95	98	52.41	30	16.04	*	*
Afar	-	-	-	-	-	-	-	-	-
Amhara	508	89	17.52	265	52.17	205	40.35	*	*
Oromia	11449	1297	11.33	283	2.47	1163	10.16	186	1.62
Somali	42	-	-	5	11.9	20	47.62	2	4.76
Benishangul-Gumuz	44	11	25	21	47.73	19	43.18	*	*
S.N.N.P.R	2104	152	7.22	76	3.61	769	36.55	61	2.9
Gambella	463	38	8.21	-	-	*	*	-	-
Harari	87	*	*	6	6.9	58	66.67	*	*
Addis Ababa	*	-	-	*	*	*	*	-	-
Dire Dawa	*	-	-	*	*	-	-	*	*

TABLE 6.14: AREA OF CROPLAND UNDER IMPROVED FARM MANAGEMENT PRACTICES BY CROP  
CATEGORY IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Other Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	252025	345	0.14	4798	1.9	155129	61.55	623	0.25
Tigray	53	*	*	4	7.55	30	56.6	*	*
Afar	3	*	*	3	100.00	2	66.67	-	-
Amhara	1337	16	1.2	696	52.06	574	42.93	13	0.97
Oromia	72736	178	0.24	2136	2.94	45849	63.03	209	0.29
Somali	*	-	-	2	*	*	*	-	-
Benishangul-Gumuz	73	*	*	27	36.99	30	41.1	-	-
S.N.N.P.R	177289	143	0.08	1904	1.07	108576	61.24	400	0.23
Gambella	470	*	*	*	*	58	12.34	*	*
Harari	39	-	-	*	*	*	*	*	*
Addis Ababa	11	*	*	*	*	8	72.73	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.14.1: RURAL MEHER

Geographic Area	Other Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	246294	302	0.12	4306	1.75	152684	61.99	598	0.24
Tigray	53	*	*	*	*	30	56.6	*	*
Afar	3	*	*	3	100.00	2	66.67	-	-
Amhara	1271	16	1.26	659	51.85	567	44.61	*	*
Oromia	70205	161	0.23	1822	2.6	45107	64.25	196	0.28
Somali	*	-	-	2	*	*	*	-	-
Benishangul-Gumuz	69	*	*	26	37.68	30	43.48	-	-
S.N.N.P.R	174175	122	0.07	1770	1.02	106887	61.37	393	0.23
Gambella	465	*	*	*	*	58	12.47	*	*
Harari	39	-	-	*	*	*	*	*	*
Addis Ababa	2	*	*	*	*	1	50	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.14.1a: Enset

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
National	233492	248	0.11	1066	0.46	148906	63.77	515	0.22
Tigray	*	-	-	*	*	*	*	-	-
Afar	-	-	-	-	-	-	-	-	-
Amhara	10	*	*	*	*	8	80	-	-
Oromia	65864	131	0.2	190	0.29	43786	66.48	170	0.26
Somali	*	-	-	*	*	-	-	-	-
Benishangul-Gumuz	4	*	*	*	*	2	50	-	-
S.N.N.P.R	167217	117	0.07	874	0.52	105052	62.82	345	0.21
Gambella	393	-	-	-	-	56	14.25	-	-
Harari	*	-	-	-	-	*	*	-	-
Addis Ababa	1	-	-	*	*	*	*	-	-
Dire Dawa	-	-	-	-	-	-	-	-	-

TABLE 6.14.1b: Sugar Cane

Geographic	Total Crop	Improved Seed	Irrigated	Fertilizer	Pesticide
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TABLE 6.15: NUMBER OF HOLDER APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP TYPE IN RURAL AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
	Holder	Hectare	Natural		Chemical – DAP		
			Holder	Hectare	Holder	Hectare	Quintal
<b>TOTAL</b>	7489163	3755178	6382866	1454450	1818886	1066606	778421
Grain Crops	6398794	3289672	4723456	1070033	1696558	1023747	732563
Cereals	6174342	3023838	4357621	904120	1620637	951841	687675
Teff	2114664	929835	466177	97978	765561	319905	220441
Barley	1592259	376987	939759	133657	456275	175085	125018
Wheat	1710089	600909	473433	60900	587514	272092	221477
Maize	4050434	767940	3298427	412964	392549	94595	70862
Sorghum	864869	200398	758533	171654	38938	6860	2684
Finger millet	424161	136964	127066	22982	178127	77640	43841
Oats ('Aja')	91044	9994	56220	3644	27900	5534	3247
Rice	5623	809	3505	341	682	130	105
Pulses	1906869	208325	1545253	128336	312943	59572	39219
Horse/Faba beans	890396	96742	664294	59711	174832	29433	19915
Field peas	271205	35247	172133	16055	79148	15323	10690
Haricot beans	839820	52705	758824	37979	79115	11111	6514
Chick peas	77996	11179	64070	7949	4441	961	553
Lentils	55394	4674	34183	2561	11547	928	468
Vetch/Grass peas	27998	3255	22380	2306	1756	349	145
Soya	4247	870	2797	129	1126	637	596
Fenugreek	56403	2743	42375	1199	4458	551	236
Gibto	8539	909	4308	446	2474	280	102
Oil Seeds	421865	50395	323141	32306	62453	11269	4767
Neug	87236	24671	66379	17691	13805	4734	1265
Linseed	66705	7620	43493	3460	15981	3351	1419
Ground nuts	25308	3424	21185	2703	1454	194	24
Sunflower	18380	792	12143	295	1741	96	29
Sesame	26550	3977	23806	3229	879	293	77
Rapeseed	224072	9911	170870	4928	31560	2600	1953
Other Grains	231465	7113	215859	5272	7890	1065	903
Vegetables	2132520	50158	1971123	32194	77937	6007	8711
Lettuce	9039	149	6565	60	189	*	*
Head cabbage	29241	570	21867	294	2035	*	*
Kale	1160618	13833	1144780	13470	13182	207	284
Tomatoes	36443	1869	27044	638	1511	147	232
Green peppers	242564	2388	224201	1954	6706	124	201
Red peppers	644722	26942	505614	12013	53968	5391	7831
Swiss chard	13936	74	11887	58	368	*	*
Others	297010	4334	289946	3709	3134	91	97
Root Crops	2428911	161575	2113382	111332	343729	33748	35990
Beet root	39294	406	31908	229	3622	57	58
Carrot	26397	555	19641	237	3119	123	200
Onions	383093	10899	327915	5629	21258	1752	1868
Potatoes	1336751	110475	1043734	67707	306075	31004	32892
Garlic	500445	3279	467836	2888	10344	137	230
Taro ('Godere')	382265	10317	379682	10115	2375	138	216
Sweet potatoes	430334	23108	412183	22199	9247	461	493
Others	71657	2536	70349	2329	706	*	32
Permanent Crops	3543348	253774	3456519	240890	44681	3104	1156
Fruit Crops	914952	10615	896699	10056	7216	172	181
Avocado	128716	628	127557	615	569	5	11
Bananas	545321	5398	538229	5215	2855	49	80
Guava (Zeytuna)	55695	416	52619	339	525	25	7
Lemons	40810	192	39917	176	199	*	*
Mangoes	102404	1110	98110	996	1560	31	37
Oranges	130271	828	128437	800	499	13	9
Papayas	151046	792	147829	734	891	*	15
Pineapples	2233	8	2233	8	-	-	-
Others	92895	1241	89256	1173	863	24	18
Stimulant Crops	1932130	90475	1846161	79192	34362	2589	827
Chat	716348	40591	661093	32913	14998	1347	304
Coffee	834485	40831	806678	37903	16418	1095	408
Hops	781521	9038	761393	8361	6764	147	115
Others	209	*	209	*	-	-	-
Other Permanent Crops	2119186	152684	2103507	151642	9576	344	148
Enset	1978865	148906	1973567	148559	4592	167	87
Sugar Cane	205213	3385	197683	2785	2360	129	42
Others	82880	394	75439	298	2872	48	20

TABLE 6.15 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
TOTAL .....	340582	88573	58702	2046415	1145549	1441418
Grain Crops.....	254269	77819	49565	1983020	1118072	1402693
Cereals .....	240012	73956	47087	1964513	1093921	1384730
Teff .....	107357	36809	21275	913860	475143	513969
Barley .....	28666	6178	4826	276417	62068	63140
Wheat.....	44256	10868	9124	697574	257049	374415
Maize .....	67586	11431	8498	830052	248951	393271
Sorghum .....	24714	5644	1891	67682	16240	10912
Finger millet .....	11999	2868	1391	121699	33474	27686
Oats ('Aja') .....	911	109	72	6834	708	911
Rice.....	225	50	9	1248	289	426
Pulses .....	21976	2449	1565	125147	17968	15355
Horse/Faba beans .....	7581	681	604	59089	6918	6735
Field peas.....	3894	637	396	19173	3232	2781
Haricot beans.....	8586	574	348	28723	3042	1498
Chick peas .....	1499	320	86	8327	1949	1552
Lentils.....	880	89	47	9017	1096	1335
Vetch/Grass peas.....	263	*	14	3690	564	625
Soya.....	60	*	*	274	82	77
Fenugreek .....	777	58	26	9239	936	716
Gibto.....	*	*	*	1745	149	36
Oil Seeds .....	9305	1237	742	51802	5583	2036
Neug .....	1588	401	*	7142	1845	823
Linseed .....	1143	96	53	6464	713	530
Ground nuts.....	1832	251	64	1406	275	105
Sufflower.....	1259	67	31	3375	334	50
Sesame.....	925	250	39	1042	205	149
Rapeseed.....	2795	171	75	33309	2211	379
Other Grains.....	3310	177	172	5754	600	572
Vegetables .....	61094	4204	4333	81719	7752	16092
Lettuce.....	1436	54	*	1638	31	70
Head cabbage .....	2943	95	354	3395	139	387
Kale .....	3527	40	62	5747	117	200
Tomatoes .....	1542	*	193	7307	888	2539
Green peppers.....	4515	101	255	8989	209	437
Red peppers.....	47743	3688	3253	55315	5850	12350
Swiss chard.....	544	4	12	1294	11	28
Others .....	1232	26	25	4065	*	82
Root Crops.....	53492	2900	3811	138024	13594	20804
Beet root .....	1878	43	132	2950	77	173
Carrot.....	1423	29	49	3324	166	253
Onions .....	15734	1108	1471	26369	2410	6686
Potatoes .....	23266	1469	1675	91177	10295	12180
Garlic.....	9896	78	328	14593	176	604
Taro ('Godere') .....	311	*	*	1005	58	117
Sweet potatoes.....	4912	140	128	8294	308	647
Others .....	*	*	*	638	106	*
Permanent Crops .....	40666	3649	993	76032	6131	1828
Fruit Crops.....	6268	120	122	12347	267	246
Avocado.....	351	*	5	387	6	*
Bananas .....	1766	25	22	5198	108	101
Guava (Zeytuna).....	1320	32	19	1416	21	15
Lemons .....	191	*	5	521	14	*
Mangoes .....	971	25	12	2268	58	35
Oranges .....	433	*	6	1063	12	13
Papayas.....	1194	18	17	1444	16	26
Pineapples.....	-	-	-	-	-	-
Others .....	1081	12	35	2104	33	46
Stimulant Crops .....	31347	3117	790	65039	5578	1423
Chat .....	23350	2603	624	37015	3728	856
Coffee .....	6577	466	122	17243	1368	343
Hops .....	3009	47	44	16103	483	224
Others .....	-	-	-	-	-	-
Other Permanent Crops .....	7919	413	81	7775	286	159
Enset .....	1358	75	25	3218	105	71
Sugar Cane .....	3381	320	25	2436	151	57
Others .....	3180	17	32	2216	30	31

TABLE 6.15.1: RURAL MEHER

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
	Holder	Hectare	Natural		Chemical – DAP		
			Holder	Hectare	Holder	Hectare	Quintal
TOTAL .....	7178609	3428876	5982465	1215718	1706016	996035	727473
Grain Crops .....	5844515	3071825	3963930	904657	1647853	978518	708276
Cereals .....	5585950	2842279	3543916	768303	1583418	912117	665805
Teff .....	2081009	922689	436238	93048	760319	318411	219780
Barley .....	1441598	326432	817500	109645	415691	150208	112277
Wheat .....	1665065	587104	431857	55051	578700	264348	216600
Maize .....	3242496	670393	2399917	323389	358703	89989	67689
Sorghum .....	826654	190691	718382	161997	38788	6845	2670
Finger millet .....	419376	136640	122413	22661	178061	77637	43838
Oats ('Aja') .....	69146	7522	37292	2171	24620	4549	2856
Rice .....	4594	808	2760	341	431	130	95
Pulses .....	1410759	172753	1055484	99425	272322	54115	36814
Horse/Faba beans .....	875648	96117	649375	59134	174161	29393	19890
Field peas .....	251954	32618	155016	14140	76513	14689	10480
Haricot beans .....	327069	22840	266195	13825	38483	6397	4375
Chick peas .....	67942	9891	54505	6747	4350	959	552
Lentils .....	47332	3976	26444	1894	11348	902	466
Vetch/Grass peas .....	26451	3176	20898	2229	1756	349	145
Soya .....	3876	861	2426	120	1126	637	596
Fenugreek .....	49976	2370	36466	892	4132	514	218
Gibto .....	8329	903	4249	444	2324	276	93
Oil Seeds .....	404237	50134	305597	32088	62180	11226	4755
Neug .....	87206	24670	66349	17690	13805	4734	1265
Linseed .....	65423	7513	42318	3396	15821	3308	1408
Ground nuts .....	24182	3284	20059	2563	1454	194	24
Sufflower .....	17960	782	11723	285	1741	96	29
Sesame .....	26319	3975	23575	3227	879	293	77
Rapeseed .....	209378	9910	156181	4927	31447	2600	1951
Other Grains .....	216170	6659	200520	4840	7819	1059	902
Vegetables .....	1814567	42375	1658809	25565	74182	5878	8553
Lettuce .....	5282	86	3280	25	189	*	*
Head cabbage .....	22331	336	16976	192	1699	*	*
Kale .....	862819	8409	846993	8121	11663	170	257
Tomatoes .....	22366	895	16511	298	1152	102	157
Green peppers .....	219097	1931	204354	1659	5264	93	166
Red peppers .....	633548	26623	496371	11799	53827	5386	7821
Swiss chard .....	11405	49	10037	44	368	*	*
Others .....	272412	4046	265347	3428	3134	91	97
Root Crops .....	1666138	60901	1485481	44606	126238	8534	9488
Beet root .....	33373	245	27805	146	2691	31	36
Carrot .....	20249	380	14799	124	2188	91	183
Onions .....	286946	6132	246374	3005	15806	1201	1433
Potatoes .....	528292	24607	405576	13351	90968	6480	6923
Garlic .....	426565	2644	396238	2319	8749	102	197
Taro ('Godere') .....	349414	9154	346675	8953	2332	137	214
Sweet potatoes .....	371002	15640	352507	14816	8596	415	470
Others .....	57736	2098	56492	1892	670	*	32
Permanent Crops .....	3543348	253774	3456519	240890	44681	3104	1156
Fruit Crops .....	914952	10615	896699	10056	7216	172	181
Avocado .....	128716	628	127557	615	569	5	11
Bananas .....	545321	5398	538229	5215	2855	49	80
Guava (Zeytuna) .....	55695	416	52619	339	525	25	7
Lemons .....	40810	192	39917	176	199	*	*
Mangoes .....	102404	1110	98110	996	1560	31	37
Oranges .....	130271	828	128437	800	499	13	9
Papayas .....	151046	792	147829	734	891	*	15
Pineapples .....	2233	8	2233	8	-	-	-
Others .....	92895	1241	89256	1173	863	24	18
Stimulant Crops .....	1932130	90475	1846161	79192	34362	2589	827
Chat .....	716348	40591	661093	32913	14998	1347	304
Coffee .....	834485	40831	806678	37903	16418	1095	408
Hops .....	781521	9038	761393	8361	6764	147	115
Others .....	209	*	209	*	-	-	-
Other Permanent Crops .....	2119186	152684	2103507	151642	9576	344	148
Enset .....	1978865	148906	1973567	148559	4592	167	87
Sugar Cane .....	205213	3385	197683	2785	2360	129	42
Others .....	82880	394	75439	298	2872	48	20

TABLE 6.15.1 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
TOTAL .....	312730	84850	55105	2004481	1132273	1423486
Grain Crops .....	245688	76089	48450	1963527	1112562	1397327
Cereals .....	232841	72364	46030	1948457	1089494	1379925
Teff .....	106659	36653	21214	911714	474577	513685
Barley .....	26347	5414	4326	270847	61165	62349
Wheat .....	43938	10780	9046	696919	256926	374308
Maize .....	63265	10872	8098	810958	246144	389673
Sorghum .....	24686	5628	1887	67592	16222	10901
Finger millet .....	11932	2867	1390	121699	33474	27686
Oats ('Aja') .....	837	101	60	6726	700	901
Rice .....	225	50	9	1214	287	421
Pulses .....	20216	2310	1506	116975	16903	14830
Horse/Faba beans .....	7539	679	603	58933	6911	6725
Field peas .....	3768	595	384	18984	3194	2765
Haricot beans .....	7128	498	305	21035	2120	1128
Chick peas .....	1392	302	83	8007	1884	1464
Lentils .....	818	87	45	8956	1094	1334
Vetch/Grass peas .....	263	*	14	3625	562	620
Soya .....	60	*	*	274	82	77
Fenugreek .....	777	58	26	8925	906	681
Gibto .....	*	*	*	1745	149	36
Oil Seeds .....	9305	1237	742	51802	5583	2036
Neug .....	1588	401	*	7142	1845	823
Linseed .....	1143	96	53	6464	713	530
Ground nuts .....	1832	251	64	1406	275	105
Sunflower .....	1259	67	31	3375	334	50
Sesame .....	925	250	39	1042	205	149
Rapeseed .....	2795	171	75	33309	2211	379
Other Grains .....	3310	177	172	5558	582	536
Vegetables .....	56310	3853	3818	74659	7080	14119
Lettuce .....	959	32	*	1046	24	53
Head cabbage .....	1881	38	*	2000	76	222
Kale .....	2923	26	51	5231	92	138
Tomatoes .....	668	43	50	4168	452	1161
Green peppers .....	3250	57	128	7095	122	237
Red peppers .....	46690	3633	3216	54131	5805	12222
Swiss chard .....	246	2	*	768	3	13
Others .....	1161	22	22	3943	*	74
Root Crops .....	32837	1259	1844	75380	6501	10211
Beet root .....	1217	22	83	2016	46	79
Carrot .....	1270	22	41	2376	143	207
Onions .....	9401	558	657	17641	1367	3152
Potatoes .....	8519	438	597	35970	4338	5342
Garlic .....	9483	66	311	13805	157	565
Taro ('Godere') .....	311	*	*	1005	58	117
Sweet potatoes .....	4747	122	126	7942	287	610
Others .....	*	*	*	609	104	*
Permanent Crops .....	40666	3649	993	76032	6131	1828
Fruit Crops .....	6268	120	122	12347	267	246
Avocado .....	351	*	5	387	6	*
Bananas .....	1766	25	22	5198	108	101
Guava (Zeytuna) .....	1320	32	19	1416	21	15
Lemons .....	191	*	5	521	14	*
Mangoes .....	971	25	12	2268	58	35
Oranges .....	433	*	6	1063	12	13
Papayas .....	1194	18	17	1444	16	26
Pineapples .....	-	-	-	-	-	-
Others .....	1081	12	35	2104	33	46
Stimulant Crops .....	31347	3117	790	65039	5578	1423
Chat .....	23350	2603	624	37015	3728	856
Coffee .....	6577	466	122	17243	1368	343
Hops .....	3009	47	44	16103	483	224
Others .....	-	-	-	-	-	-
Other Permanent Crops .....	7919	413	81	7775	286	159
Enset .....	1358	75	25	3218	105	71
Sugar Cane .....	3381	320	25	2436	151	57
Others .....	3180	17	32	2216	30	31

TABLE 6.15.2 RURAL BELG

CROP	Application of Total Fertilizer		Application of Fertilizer by Type and Quantity				
			Natural		Chemical – DAP		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
TOTAL .....	2498968	326302	2169151	238732	406676	70572	50947
Grain Crops.....	1601358	217846	1475778	165377	164026	45229	24287
Cereals .....	1477419	181559	1363989	135817	127050	39724	21870
Teff .....	54732	7146	43554	4930	7786	1495	660
Barley.....	272081	50556	193220	24012	73928	24876	12741
Wheat.....	81564	13805	55706	5849	25141	7744	4877
Maize .....	1193558	97547	1156665	89575	41526	4606	3173
Sorghum.....	63294	9707	63036	9657	*	*	*
Finger millet .....	4794	324	4662	321	*	*	*
Oats ('Aja').....	28746	2473	23016	1472	5576	985	390
Rice.....	1029	*	745	-	250	-	*
Pulses .....	644638	35571	602871	28911	48361	5457	2405
Horse/Faba beans.....	19265	625	18301	576	859	40	25
Field peas .....	25674	2629	21601	1915	3701	634	211
Haricot beans .....	589966	29865	554205	24154	43439	4713	2139
Chick peas.....	10511	1287	9994	1203	*	*	*
Lentils .....	8349	698	8026	667	199	*	*
Vetch/Grass peas .....	1683	79	1618	77	-	-	-
Soya .....	*	9	*	9	-	-	-
Fenugreek .....	7159	373	6482	306	326	37	*
Gibto .....	210	*	*	*	*	*	*
Oil Seeds .....	19634	261	19433	218	273	*	*
Neug.....	*	*	*	*	-	-	-
Linseed.....	1599	107	1466	64	*	*	*
Ground nuts .....	1318	*	1318	*	-	-	-
Sufflower .....	462	10	462	10	-	-	-
Sesame .....	231	3	231	3	-	-	-
Rapeseed .....	16004	*	15937	*	*	*	*
Other Grains .....	22724	454	22528	431	*	*	*
Vegetables .....	503073	7783	487219	6629	4119	129	158
Lettuce .....	4536	62	3405	35	-	-	-
Head cabbage.....	8319	234	5390	102	386	*	*
Kale.....	433894	5424	431470	5349	1657	37	28
Tomatoes .....	15864	973	11297	339	414	45	74
Green peppers .....	27089	458	22408	295	1564	31	35
Red peppers .....	13213	319	10921	214	*	*	*
Swiss chard.....	2658	25	1919	14	-	-	-
Others.....	29127	288	29006	281	-	-	-
Root Crops .....	1348058	100673	1069720	66726	267864	25214	26502
Beet root .....	7189	161	4474	83	976	26	22
Carrot .....	7451	176	5306	114	1017	32	18
Onions.....	130477	4767	107849	2623	6356	550	435
Potatoes.....	1080411	85868	804020	54356	260936	24524	25969
Garlic .....	79850	634	77223	569	1624	35	33
Taro ('Godere') .....	58374	1163	58374	1161	*	*	*
Sweet potatoes .....	159041	7468	158202	7383	651	46	23
Others.....	19426	438	19361	437	*	*	*

TABLE 6.15.2 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
TOTAL .....	34634	3723	3598	102582	13275	17932
Grain Crops .....	9683	1731	1116	39275	5510	5366
Cereals .....	8123	1592	1056	32129	4427	4805
Teff .....	927	156	61	2845	566	284
Barley .....	2473	*	499	7686	903	791
Wheat .....	318	88	78	797	*	*
Maize .....	4485	559	400	22021	2807	3598
Sorghum .....	*	*	*	*	*	*
Finger millet .....	*	*	*	-	-	-
Oats ('Aja') .....	*	*	*	*	*	*
Rice .....	-	-	-	*	*	*
Pulses .....	1880	139	59	9123	1065	524
Horse/Faba beans .....	*	*	*	*	*	*
Field peas .....	*	*	*	189	*	*
Haricot beans .....	1458	76	42	8063	922	370
Chick peas .....	*	*	*	319	*	88
Lentils .....	*	*	*	*	*	*
Vetch/Grass peas .....	-	-	-	*	*	*
Soya .....	-	-	-	-	-	-
Fenugreek .....	-	-	-	351	29	*
Gibto .....	-	-	-	-	-	-
Oil Seeds .....	-	-	-	-	-	-
Neug .....	-	-	-	-	-	-
Linseed .....	-	-	-	-	-	-
Ground nuts .....	-	-	-	-	-	-
Sufflower .....	-	-	-	-	-	-
Sesame .....	-	-	-	-	-	-
Rapeseed .....	-	-	-	-	-	-
Other Grains .....	-	-	-	197	*	*
Vegetables .....	5353	352	515	8309	673	1973
Lettuce .....	740	22	*	651	6	*
Head cabbage .....	1302	57	116	1461	62	164
Kale .....	604	14	*	516	24	62
Tomatoes .....	874	*	*	3574	435	1379
Green peppers .....	*	44	*	2185	87	200
Red peppers .....	1092	55	36	1183	46	*
Swiss chard .....	299	2	8	543	8	15
Others .....	*	*	*	122	3	8
Root Crops .....	22870	1641	1967	72248	7093	10593
Beet root .....	*	*	*	1002	30	95
Carrot .....	*	*	*	1032	24	47
Onions .....	7338	551	814	10005	1042	*
Potatoes .....	15414	1032	1079	61728	5957	6838
Garlic .....	414	*	*	827	18	39
Taro ('Godere') .....	-	-	-	-	-	-
Sweet potatoes .....	*	*	*	*	*	*
Others .....	-	-	-	*	*	*

TABLE 6.16: NUMBER OF HOLDER APPLYING FERTILIZER, AREA, AND QUANTITY APPLIED BY CROP TYPE FOR URBAN AREAS IN MEHER SEASON, FOR RIVATE HOLDINGS

CROP	Application of Total Fertilizers		Application of Fertilizers by Type and Quantity					
	Holder	Hectare	Natural		Chemical		Natural and Chemical	
			Holder	Hectare	Holder	Hectare	Holder	Hectare
TOTAL .....	100310	62755	47719	10202	64904	50343	4545	2209
Grain Crops.....	79095	54588	19458	4742	61650	48148	3806	1698
Cereals .....	77492	51813	17761	4130	60834	46114	3731	1569
Teff .....	30198	16270	1511	490	27891	15409	901	371
Barley .....	12304	5052	1984	489	9966	4400	474	163
Wheat.....	29263	17129	1978	495	26509	16271	911	363
Maize .....	34183	10399	13060	1984	19790	7985	2068	429
Sorghum .....	5355	1583	2474	611	2381	780	562	192
Finger millet .....	3038	1215	212	56	2750	1109	81	50
Oats ('Aja').....	440	153	36	4	402	148	*	*
Rice.....	28	11	-	-	28	11	-	-
Pulses .....	7432	2235	2363	443	4813	1670	307	122
Horse/Faba beans .....	3502	843	1184	202	2220	614	103	27
Field peas.....	1357	344	389	64	931	268	37	13
Haricot beans.....	2201	679	795	121	1244	492	170	67
Chick peas .....	437	112	134	14	290	97	12	1
Lentils.....	221	59	14	*	201	47	6	*
Vetch/Grass peas .....	189	51	51	8	126	39	13	4
Soya .....	*	*	-	-	*	*	-	-
Fenugreek .....	189	48	63	9	124	38	*	*
Gibto .....	24	*	15	*	*	*	-	-
Oil Seeds .....	903	394	261	73	599	317	46	3
Neug .....	204	156	38	12	167	144	-	-
Linseed .....	309	130	34	7	270	121	5	*
Ground nuts .....	145	24	70	8	56	14	22	1
Sufflower.....	14	*	*	*	*	*	-	-
Sesame.....	60	27	15	*	38	24	*	*
Rapeseed.....	195	*	108	*	76	9	13	*
Other Grains.....	1258	147	1068	97	157	47	53	4
Vegetables .....	8848	1028	6528	305	2071	593	342	*
Lettuce .....	347	31	112	6	133	11	102	*
Head cabbage .....	214	16	96	2	85	14	33	1
Kale.....	6323	303	5614	218	548	45	175	*
Tomatoes.....	721	192	323	19	358	161	41	12
Green peppers.....	410	16	308	4	91	12	*	*
Red peppers .....	1570	379	437	48	1061	320	76	11
Swiss chard.....	512	*	169	8	217	17	126	*
Others .....	93	*	37	*	32	*	24	*
Root Crops.....	8773	1705	5727	619	2662	775	569	*
Beet root .....	228	14	111	2	76	6	41	*
Carrot.....	546	*	194	12	181	20	172	*
Onions .....	1605	494	599	52	871	370	138	*
Potatoes .....	3061	518	1312	113	1480	347	303	59
Garlic .....	500	31	380	21	75	10	44	1
Taro ('Godere') .....	2268	155	2196	140	54	*	17	1
Sweet potatoes .....	2278	247	2156	237	115	8	*	*
Others .....	256	43	240	42	*	*	5	*
Permanent Crops .....	37323	5433	34973	4536	2926	827	596	69
Fruit Crops.....	10941	720	10429	651	622	60	131	10
Avocado.....	3338	252	3192	247	141	5	27	*
Bananas .....	4515	190	4356	169	140	*	33	1
Guava (Zeytuna).....	957	27	911	20	32	*	14	*
Lemons .....	335	*	317	*	*	*	*	*
Mangoes .....	2402	85	2284	79	99	4	30	*
Oranges.....	1560	36	1426	29	118	4	21	3
Papayas.....	2675	80	2456	64	157	13	62	3
Pineapples.....	29	*	26	*	-	-	*	*
Others .....	1753	28	1677	21	81	*	8	*
Stimulant Crops .....	18672	2268	16951	1841	1519	378	457	49
Chat.....	5400	524	4708	426	442	67	280	30
Coffee .....	11471	1489	10481	1168	936	305	141	16
Hops .....	4737	254	4514	246	168	6	60	3
Others .....	*	-	*	-	-	-	-	-
Other Permanent Crops .....	26143	2445	25054	2045	1154	390	113	10
Enset .....	25265	2073	24490	1987	784	77	103	9
Sugar Cane .....	2009	*	1620	53	375	*	*	*
Others .....	221	7	207	5	18	*	-	-

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

All Crops
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Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	7589474	3817932	6430585	1464652	1818886	1066606	778421
Tigray	517709	249588	372655	113386	24498	7052	4805
Afar	2802	1329	2128	657	117	91	42
Amhara	2051666	1067390	1723710	374650	380901	244262	159318
Oromia	2960487	1876828	2359794	596424	894671	668571	483599
Somali	17329	8321	16244	7663	422	134	33
Benishangul-	59029	23687	53995	15375	5018	3668	1914
S.N.N.P.R	1943140	562469	1879763	350456	509742	141488	127561
Gambella	3892	648	3602	428	239	120	99
Harari	11243	5298	8207	2742	1429	508	202
Addis Ababa	13858	19400	2439	212	1670	635	832
Dire Dawa	8317	2974	8048	2659	179	*	*

TABLE 6.17 CONTD.

All Crops								
Geographic Area	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
National	340582	88573	58702	2046415	1145549	1441418	68174	52552
Tigray	20564	4761	3375	296262	121242	124740	5297	3147
Afar	519	369	247	238	*	45	53	103
Amhara	145374	36984	22528	691486	406067	498505	8138	5428
Oromia	116189	37152	25841	842079	539652	718353	36819	35029
Somali	426	167	*	717	289	350	106	69
Benishangul-Gumuz	2952	704	277	6765	3413	4258	666	526
S.N.N.P.R	50541	7081	5845	196059	57731	61291	14761	5712
Gambella	81	21	*	87	68	105	26	*
Harari	2774	1099	406	2015	846	562	226	102
Addis Ababa	488	51	43	10568	16079	33198	2061	2422
Dire Dawa	674	184	76	*	*	*	21	3

TABLE 6.17.1: RURAL HOLDINGS

All Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	7489163	3755178	6382866	1454450	1818886	1066606	778421
Tigray	511758	245896	371546	112841	24498	7052	4805
Afar	2733	1210	2105	642	117	91	42
Amhara	2040230	1061119	1719295	373806	380901	244262	159318
Oromia	2910980	1837712	2342027	592336	894671	668571	483599
Somali	16821	8012	15826	7422	422	134	33
Benishangul-Gumuz	58032	23061	53568	15275	5018	3668	1914
S.N.N.P.R	1914180	552601	1856924	346301	509742	141488	127561
Gambella	3862	636	3598	427	239	120	99
Harari	10820	5124	7983	2670	1429	508	202
Addis Ababa	11563	16861	2061	96	1670	635	832
Dire Dawa	8186	2947	7933	2634	179	*	*

TABLE 6.17.1 CONTD.

All Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	340582	88573	58702	2046415	1145549	1441418
Tigray	20564	4761	3375	296262	121242	124740
Afar	519	369	247	238	*	45
Amhara	145374	36984	22528	691486	406067	498505
Oromia	116189	37152	25841	842079	539652	718353
Somali	426	167	*	717	289	350
Benishangul-Gumuz	2952	704	277	6765	3413	4258
S.N.N.P.R	50541	7081	5845	196059	57731	61291
Gambella	81	21	*	87	68	105
Harari	2774	1099	406	2015	846	562
Addis Ababa	488	51	43	10568	16079	33198
Dire Dawa	674	184	76	*	*	*

TABLE 6.17.2: RURAL MEHER

All Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	7178609	3428876	5982465	1215718	1706016	996035	727473
Tigray	506110	241649	365033	111256	23803	6998	4755
Afar	2606	1057	1949	576	117	91	42
Amhara	1968782	995839	1627861	316905	365148	238457	153789
Oromia	2816250	1705012	2195154	514670	863419	619735	454098
Somali	15582	7311	14615	6725	422	134	33
Benishangul-Gumuz	57398	22730	52648	14944	5018	3668	1914
S.N.N.P.R	1778995	430364	1705676	245412	444683	125635	111718
Gambella	3431	593	3151	384	239	120	99
Harari	10711	4768	7425	2340	1373	487	182
Addis Ababa	11534	16834	2043	90	1665	634	832
Dire Dawa	7209	2719	6909	2416	130	*	*

TABLE 6.17.2 CONTD.

All Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	312730	84850	55105	2004481	1132273	1423486
Tigray	18457	4611	3202	289215	118784	120976
Afar	460	285	199	230	*	43
Amhara	136514	35870	21396	685206	404607	496761
Oromia	108776	35322	24179	833019	535285	709236
Somali	410	164	*	706	288	350
Benishangul-Gumuz	2952	704	277	6765	3413	4258
S.N.N.P.R	41287	6552	5280	176575	52765	58067
Gambella	81	21	*	87	68	105
Harari	2774	1095	401	2015	846	562
Addis Ababa	477	51	39	10525	16060	33117
Dire Dawa	543	176	66	*	*	*

TABLE 6.17.3: RURAL BELG

Geographic Area	All Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	2498968	326302	2169151	238732	406676	70572	50947
Tigray	36530	4247	18151	1585	854	54	51
Afar	340	152	215	66	-	-	-
Amhara	483555	65280	413302	56900	58154	5805	5529
Oromia	822648	132700	656882	77666	171850	48836	29502
Somali	1697	701	1669	698	-	-	-
Benishangul-Gumuz	5255	331	5255	331	-	-	-
S.N.N.P.R	1143461	122237	1068708	100889	175612	15853	15843
Gambella	599	43	599	43	-	-	-
Harari	1465	356	1324	331	*	*	*
Addis Ababa	251	27	54	*	*	*	*
Dire Dawa	3168	227	2992	218	*	*	*

TABLE 6.17.3 CONTD.

Geographic Area	All Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	34634	3723	3598	102582	13275	17932
Tigray	2428	150	172	18365	2458	3764
Afar	*	*	48	*	*	*
Amhara	11009	1114	1132	16060	1461	1744
Oromia	9866	1830	1662	27196	4367	9116
Somali	*	*	*	*	*	*
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	10948	530	564	40755	4966	3224
Gambella	-	-	-	-	-	-
Harari	*	*	*	-	-	-
Addis Ababa	*	*	*	186	19	81
Dire Dawa	*	*	*	-	-	-

TABLE 6.17.4: URBAN HOLDINGS

Geographic Area	All Crops							
	Application of		Type of Fertilizer Applied					
							Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	100310	62755	47719	10202	64904	50343	4545	2209
Tigray	5951	3692	1109	545	4957	2763	585	384
Afar	70	119	24	16	47	93	*	*
Amhara	11436	6271	4415	844	7847	5255	466	173
Oromia	49507	39116	17767	4088	35406	34147	1865	882
Somali	508	309	418	241	96	60	10	9
Benishangul-Gumuz	997	626	427	100	642	506	28	19
S.N.N.P.R	28961	9868	22839	4156	13884	5434	1210	278
Gambella	30	*	*	*	26	*	-	-
Harari	424	174	224	71	124	60	108	43
Addis Ababa	2295	2539	377	116	1863	2013	256	*
Dire Dawa	131	28	115	25	*	*	11	*

TABLE 6.18: NUMBER OF HOLDER 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	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	6477890	3344260	4742914	1074776	1696558	1023747	732563
Tigray	508754	245412	347600	110964	23419	7018	4758
Afar	1939	863	1479	533	95	53	28
Amhara	1865287	999942	1420374	322257	357127	236513	151794
Oromia	2613027	1690485	1711203	452307	857409	647670	465185
Somali	15074	6852	14200	6341	317	78	29
Benishangul-Gumuz	52904	22059	46703	13940	4682	3638	1899
S.N.N.P.R	1386879	353223	1183249	163779	450497	127671	107965
Gambella	2494	542	2230	328	199	117	98
Harari	10956	3816	7473	2126	1255	323	113
Addis Ababa	12835	18761	1014	164	1403	595	682
Dire Dawa	7741	2305	7387	2036	154	*	*

TABLE 6.18 CONTD.

Grain Crops								
Geographic Area	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
National	254269	77819	49565	1983020	1118072	1402693	64507	49846
Tigray	18065	4671	3204	292864	119648	122394	5234	3111
Afar	*	*	62	230	*	43	*	*
Amhara	105926	33929	19748	679135	401985	493805	7853	5258
Oromia	94360	32309	22010	819530	524705	694076	35014	33493
Somali	310	121	*	628	253	344	99	60
Benishangul-Gumuz	1428	638	237	6485	3339	4239	609	504
S.N.N.P.R	30325	5034	3892	171592	51379	54198	13743	5360
Gambella	50	*	*	87	68	105	21	*
Harari	2741	738	266	1871	562	488	214	67
Addis Ababa	238	45	30	10459	15982	32993	1689	1975
Dire Dawa	592	150	58	*	*	*	21	3

TABLE 6.18.1: RURAL HOLDINGS

Grain Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	6398794	3289672	4723456	1070033	1696558	1023747	732563
Tigray	502975	241829	346674	110492	23419	7018	4758
Afar	1916	846	1466	521	95	53	28
Amhara	1855435	994201	1417854	321774	357127	236513	151794
Oromia	2571839	1654572	1703000	449887	857409	647670	465185
Somali	14665	6575	13875	6124	317	78	29
Benishangul-Gumuz	52049	21484	46394	13869	4682	3638	1899
S.N.N.P.R	1368193	346946	1176535	162862	450497	127671	107965
Gambella	2469	529	2226	326	199	117	98
Harari	10552	3703	7276	2080	1255	323	113
Addis Ababa	11059	16696	847	74	1403	595	682
Dire Dawa	7641	2289	7307	2023	154	*	*

TABLE 6.18.1 CONTD.

Grain Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	254269	77819	49565	1983020	1118072	1402693
Tigray	18065	4671	3204	292864	119648	122394
Afar	*	*	62	230	*	43
Amhara	105926	33929	19748	679135	401985	493805
Oromia	94360	32309	22010	819530	524705	694076
Somali	310	121	*	628	253	344
Benishangul-Gumuz	1428	638	237	6485	3339	4239
S.N.N.P.R	30325	5034	3892	171592	51379	54198
Gambella	50	*	*	87	68	105
Harari	2741	738	266	1871	562	488
Addis Ababa	238	45	30	10459	15982	32993
Dire Dawa	592	150	58	*	*	*

TABLE 6.18.2: RURAL MEHER

Grain Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	5844515	3071825	3963930	904657	1647853	978518	708276
Tigray	498436	238752	342221	109311	23147	6981	4723
Afar	1803	763	1336	470	95	53	28
Amhara	1817992	965374	1371227	294165	355524	235970	151308
Oromia	2452148	1556467	1528888	390311	843173	611342	445915
Somali	13420	5885	12634	5436	317	78	29
Benishangul-Gumuz	51566	21342	45754	13727	4682	3638	1899
S.N.N.P.R	978796	260548	646161	87235	417965	119364	103479
Gambella	2016	487	1751	284	199	117	98
Harari	10443	3366	6653	1758	1224	311	105
Addis Ababa	11041	16689	830	69	1398	593	682
Dire Dawa	6853	2153	6476	1890	130	*	*

TABLE 6.18.2 CONTD.

Grain Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	245688	76089	48450	1963527	1112562	1397327
Tigray	17034	4573	3126	288193	117887	119991
Afar	*	134	47	230	*	43
Amhara	104867	33671	19558	677780	401567	493365
Oromia	91277	31201	21331	816144	523612	692966
Somali	306	118	*	628	253	344
Benishangul-Gumuz	1428	638	237	6485	3339	4239
S.N.N.P.R	27011	4808	3748	161509	49142	52785
Gambella	50	*	*	87	68	105
Harari	2741	735	262	1871	562	488
Addis Ababa	238	45	30	10459	15981	32993
Dire Dawa	543	148	54	*	*	*

TABLE 6.18.3: RURAL BELG

Geographic Area	Grain Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1601358	217846	1475778	165377	164026	45229	24287
Tigray	24074	3077	11521	1181	332	37	35
Afar	247	84	169	51	-	-	-
Amhara	199332	28827	195516	27609	2809	542	486
Oromia	504849	98105	424040	59576	86873	36328	19271
Somali	1660	690	1655	688	-	-	-
Benishangul-Gumuz	2445	142	2445	142	-	-	-
S.N.N.P.R	864504	86398	836299	75627	73951	8307	4486
Gambella	589	42	589	42	-	-	-
Harari	1357	338	1310	322	*	*	*
Addis Ababa	45	*	*	*	*	*	*
Dire Dawa	2257	136	2208	133	*	*	*

TABLE 6.18.3 CONTD.

Geographic Area	Grain Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	9683	1731	1116	39275	5510	5366
Tigray	1153	99	78	11929	1761	2403
Afar	*	*	*	-	-	-
Amhara	1368	258	191	2145	417	440
Oromia	3436	1108	680	6182	1093	1110
Somali	*	*	*	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	3580	226	144	19005	2238	1413
Gambella	-	-	-	-	-	-
Harari	*	*	*	-	-	-
Addis Ababa	-	-	-	*	*	*
Dire Dawa	*	*	*	-	-	-

TABLE 6.18.4: URBAN HOLDINGS

Geographic Area	Grain Crops							
	Application of		Type of Fertilizer Applied					
							Natural and Chemical	
	Holder	Hect	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	79095	5458	19458	4742	61650	48148	3806	1698
Tigray	5779	3583	927	472	4910	2740	554	371
Afar	22	16	13	12	*	*	*	*
Amhara	9852	5741	2519	483	7592	5106	403	152
Oromia	41188	3591	8203	2420	33768	32698	1574	796
Somali	408	277	325	217	90	51	10	9
Benishangul-Gumuz	855	575	309	70	594	490	19	*
S.N.N.P.R	18687	6277	6715	917	12891	5105	1047	255
Gambella	25	*	*	*	21	*	-	-
Harari	403	113	197	46	113	28	106	39
Addis Ababa	1776	2065	167	89	1657	1919	75	56
Dire Dawa	101	15	80	13	*	*	11	*

TABLE 6.19: NUMBER OF HOLDER APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Cereals
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Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	6251834	3075651	4375382	908249	1620637	951841	687675
Tigray	503893	234415	332613	102422	22024	6642	4500
Afar	1894	838	1435	517	95	53	28
Amhara	1813410	919631	1338266	267702	346557	220866	144592
Oromia	2536101	1576029	1569784	389181	834777	609195	439958
Somali	14910	6663	14032	6166	317	77	29
Benishangul-Gumuz	50198	18456	44186	11399	3844	2913	1278
S.N.N.P.R	1297836	295845	1057777	126797	410912	111362	96600
Gambella	2345	533	2080	319	199	117	98
Harari	10803	3205	7029	1679	1224	273	98
Addis Ababa	12702	17847	793	137	534	273	482
Dire Dawa	7741	2188	7387	1930	154	*	*

TABLE 6.19 CONTD.

Geographic Area	Cereals							
	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
National	240012	73956	47087	1964513	1093921	1384730	63649	47683
Tigray	17414	4501	3112	291558	117862	119861	5192	2988
Afar	*	*	58	230	*	42	*	*
Amhara	101056	32556	19058	675786	393395	488667	7784	5112
Oromia	90213	30569	20687	814942	515033	686613	34666	32052
Somali	310	121	*	628	245	344	99	53
Benishangul-Gumuz	1222	496	211	6409	3223	4141	454	425
S.N.N.P.R	26044	4697	3584	162437	47916	51860	13502	5073
Gambella	50	*	*	83	68	105	21	*
Harari	2741	666	239	1871	525	484	214	62
Addis Ababa	143	28	24	10430	15509	32607	1689	1901
Dire Dawa	592	144	56	*	*	*	21	3

TABLE 6.19.1: RURAL HOLDINGS

Geographic Area	Cereals						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	6174342	3023838	4357621	904120	1620637	951841	687675
Tigray	498151	230986	331710	101981	22024	6642	4500
Afar	1876	824	1424	507	95	53	28
Amhara	1803720	914092	1335885	267274	346557	220866	144592
Oromia	2495403	1541803	1561865	387006	834777	609195	439958
Somali	14510	6424	13720	5981	317	77	29
Benishangul-Gumuz	49505	17971	43895	11339	3844	2913	1278
S.N.N.P.R	1279881	290087	1052273	126113	410912	111362	96600
Gambella	2320	522	2076	319	199	117	98
Harari	10409	3100	6840	1636	1224	273	98
Addis Ababa	10926	15857	627	47	534	273	482
Dire Dawa	7641	2173	7307	1917	154	*	*

TABLE 6.19.1 CONTD.

Cereals						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	240012	73956	47087	1964513	1093921	1384730
Tigray	17414	4501	3112	291558	117862	119861
Afar	*	*	58	230	*	42
Amhara	101056	32556	19058	675786	393395	488667
Oromia	90213	30569	20687	814942	515033	686613
Somali	310	121	*	628	245	344
Benishangul-Gumuz	1222	496	211	6409	3223	4141
S.N.N.P.R	26044	4697	3584	162437	47916	51860
Gambella	50	*	*	83	68	105
Harari	2741	666	239	1871	525	484
Addis Ababa	143	28	24	10430	15509	32607
Dire Dawa	592	144	56	*	*	*

TABLE 6.19.2: RURAL MEHER

Cereals							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	5585950	2842279	3543916	768303	1583418	912117	665805
Tigray	493377	228134	327186	100925	21752	6605	4465
Afar	1763	745	1304	460	95	53	28
Amhara	1764347	888625	1286613	242929	345017	220384	144117
Oromia	2373371	1453490	1386988	335793	820235	574088	421152
Somali	13248	5778	12463	5337	317	77	29
Benishangul-Gumuz	48932	17851	43132	11219	3844	2913	1278
S.N.N.P.R	860924	226369	471055	68082	390077	107266	94048
Gambella	1867	480	1601	277	199	117	98
Harari	10359	2920	6494	1456	1224	273	98
Addis Ababa	10908	15851	605	42	529	271	481
Dire Dawa	6853	2037	6476	1784	130	*	*

TABLE 6.19.2 CONTD.

Cereals						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	232841	72364	46030	1948457	1089494	1379925
Tigray	16435	4404	3035	286982	116200	117585
Afar	*	128	43	230	*	42
Amhara	100085	32316	18870	674431	392996	488256
Oromia	87323	29521	20034	812127	514089	685578
Somali	306	118	*	628	245	344
Benishangul-Gumuz	1222	496	211	6409	3223	4141
S.N.N.P.R	23808	4528	3464	155125	46493	50776
Gambella	50	*	*	83	68	105
Harari	2741	666	239	1871	525	484
Addis Ababa	143	28	24	10430	15509	32607
Dire Dawa	543	142	52	*	*	*

TABLE 6.19.2a: Teff

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	2081009	922689	436238	93048	760319	318411	219780
Tigray	221330	64494	53273	11569	8700	2738	1526
Afar	329	116	132	25	85	44	23
Amhara	764760	351170	181407	37891	223105	106051	67705
Oromia	823349	436740	147632	34234	369159	171059	124799
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	5068	3281	2247	1030	2223	1691	633
S.N.N.P.R	256146	58972	51494	8285	156739	36699	24855
Gambella	-	-	-	-	-	-	-
Harari	*	*	-	-	*	*	*
Addis Ababa	10012	7916	53	*	296	129	239
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.19.2a CONTD.

Teff						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	106659	36653	21214	911714	474577	513685
Tigray	7005	1603	1040	163137	48584	48655
Afar	*	*	*	111	38	31
Amhara	62617	22147	11195	357619	185080	199517
Oromia	28980	11207	8183	328038	220241	238413
Somali	-	-	-	-	-	-
Benishangul-Gumuz	271	123	40	627	437	313
S.N.N.P.R	7763	1559	741	52394	12428	9306
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	*	*	*	9787	7767	17448
Dire Dawa	-	-	-	-	-	-

TABLE 6.19.2b: Barley

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1441598	326432	817500	109645	415691	150208	112277
Tigray	189935	27128	97721	11278	6815	1074	994
Afar	100	6	100	6	-	-	-
Amhara	413779	73359	316918	47356	49760	12475	10957
Oromia	557516	192097	227784	33009	257590	124054	86577
Somali	1638	*	1568	*	*	*	*
Benishangul-Gumuz	1512	360	1298	251	127	59	38
S.N.N.P.R	276461	33089	171959	17451	101158	12515	13664
Gambella	-	-	-	-	-	-	-
Harari	309	*	*	*	*	*	*
Addis Ababa	263	88	*	*	91	25	42
Dire Dawa	*	*	*	*	-	-	-

TABLE 6.19.2b CONTD.

Barley						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	26347	5414	4326	270847	61165	62349
Tigray	3984	696	567	100418	14079	12583
Afar	-	-	-	-	-	-
Amhara	6768	1192	1166	55379	12335	12923
Oromia	9549	2782	1860	93357	32252	33972
Somali	-	-	-	*	*	-
Benishangul-Gumuz	*	*	*	*	*	*
S.N.N.P.R	5902	724	720	21337	2400	2740
Gambella	-	-	-	-	-	-
Harari	*	*	*	104	2	*
Addis Ababa	21	*	*	131	*	*
Dire Dawa	-	-	-	-	-	-

TABLE 6.19.2c: Wheat

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1665065	587104	431857	55051	578700	264348	216600
Tigray	180774	31041	69574	8734	5533	770	693
Afar	44	5	34	*	*	*	*
Amhara	398050	123142	136264	16358	50257	13937	13096
Oromia	772824	363230	142379	20944	370115	215679	167855
Somali	3047	815	2345	519	140	*	*
Benishangul-Gumuz	1027	416	667	168	238	145	114
S.N.N.P.R	298979	60555	80437	8309	151877	33639	34606
Gambella	-	-	-	-	-	-	-
Harari	1292	83	101	4	211	*	*
Addis Ababa	8988	7816	*	*	318	117	199
Dire Dawa	*	*	*	*	-	-	-

TABLE 6.19.2c CONTD.

Wheat						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	43938	10780	9046	696919	256926	374308
Tigray	4170	781	746	121517	20756	22768
Afar	-	-	-	-	-	-
Amhara	15657	3730	3333	218251	89116	136384
Oromia	17625	5257	4179	273072	121350	178908
Somali	149	*	*	414	182	303
Benishangul-Gumuz	*	*	*	96	58	32
S.N.N.P.R	5793	859	703	74233	17748	20848
Gambella	-	-	-	-	-	-
Harari	430	18	11	632	46	*
Addis Ababa	56	20	*	8705	7670	15009
Dire Dawa	-	-	-	-	-	-

TABLE 6.19.2d: Maize

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	3242496	670393	2399917	323389	358703	89989	67689
Tigray	277134	39750	209680	28238	2410	317	335
Afar	1447	561	1139	378	*	*	*
Amhara	1108257	211905	888342	98032	87317	21227	15154
Oromia	1456383	342780	1050059	162111	162058	45138	31902
Somali	9481	2500	9125	2444	*	*	*
Benishangul-Gumuz	42683	8223	37813	5507	755	166	134
S.N.N.P.R	335374	63696	195556	26137	105214	22982	20056
Gambella	1722	418	1466	240	183	92	84
Harari	6876	458	3928	221	653	41	19
Addis Ababa	680	21	519	11	*	*	*
Dire Dawa	2459	82	2289	71	-	-	-

TABLE 6.19.2d CONTD.

Maize						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	63265	10872	8098	810958	246144	389673
Tigray	2772	317	219	69538	10878	13867
Afar	*	*	39	*	*	*
Amhara	20162	3334	2329	292611	89312	126367
Oromia	31005	5554	4087	390172	129976	228053
Somali	*	*	*	*	*	*
Benishangul-Gumuz	549	91	70	5641	2459	3609
S.N.N.P.R	6518	1308	1259	51241	13268	17543
Gambella	50	*	*	83	68	105
Harari	1720	109	78	1200	87	34
Addis Ababa	*	*	*	99	*	*
Dire Dawa	*	*	*	*	*	*

TABLE 6.19.2e: Sorghum

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	826654	190691	718382	161997	38788	6845	2670
Tigray	113383	37102	95436	30970	1373	377	189
Afar	206	56	190	47	-	-	-
Amhara	151317	37150	143894	34917	1631	412	105
Oromia	433104	97210	371177	79835	22546	4798	1788
Somali	6142	2145	5781	2063	*	*	*
Benishangul-Gumuz	10647	3790	10314	3670	111	32	9
S.N.N.P.R	96225	8861	80222	7515	11883	911	494
Gambella	210	54	195	37	*	*	*
Harari	9307	2366	5502	1228	993	213	61
Addis Ababa	*	*	*	*	-	-	-
Dire Dawa	6093	1952	5656	1710	130	*	*

TABLE 6.19.2e CONTD.

Sorghum						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	24686	5628	1887	67592	16222	10901
Tigray	1257	344	139	19843	5410	4827
Afar	-	-	-	*	*	*
Amhara	1420	400	158	5036	1420	755
Oromia	18381	4072	1347	36250	8505	4726
Somali	*	*	*	*	*	*
Benishangul-Gumuz	125	52	*	140	37	*
S.N.N.P.R	638	55	35	4298	380	161
Gambella	-	-	-	-	-	-
Harari	2234	536	147	1711	390	*
Addis Ababa	-	-	-	*	*	*
Dire Dawa	494	135	*	*	*	*

TABLE 6.19.2f: Finger millet

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	419376	136640	122413	22661	178061	77637	43838
Tigray	117639	28567	51527	10096	4232	1329	728
Afar	-	-	-	-	-	-	-
Amhara	223101	90321	37334	7140	138495	66262	37091
Oromia	64385	15045	27154	4536	29794	8783	5422
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	2451	1699	1246	579	852	809	337
S.N.N.P.R	11712	1005	5084	308	4688	455	259
Gambella	*	*	*	*	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	*	*	*	*	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.19.2f CONTD.

Finger millet						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	11932	2867	1390	121699	33474	27686
Tigray	3085	662	325	66040	16480	14879
Afar	-	-	-	-	-	-
Amhara	6161	1485	680	47659	15434	11684
Oromia	2166	555	326	6093	1172	894
Somali	-	-	-	-	-	-
Benishangul-Gumuz	228	143	54	142	*	*
S.N.N.P.R	273	22	6	1765	220	135
Gambella	-	-	-	-	-	-
Harari	*	*	-	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.19.2g: Oats ('Aja')

Geographic Area	Total Fertilized Cropland	Type of Fertilizer Applied	
		Natural	Dap

	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	69146	7522	37292	2171	24620	4549	2856
Tigray	406	52	267	39	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	18958	1102	17078	971	244	19	10
Oromia	43702	6168	15948	1054	22642	4469	2734
Somali	300	*	300	*	-	-	-
Benishangul-Gumuz	218	9	203	7	*	*	*
S.N.N.P.R	5426	161	3481	76	1719	60	111
Gambella	-	-	-	-	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	*	*	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.19.2g CONTD.

Oats ('Aja')						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	837	101	60	6726	700	901
Tigray	-	-	-	139	13	*
Afar	-	-	-	-	-	-
Amhara	*	*	*	1539	99	332
Oromia	677	87	50	4686	558	555
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	*	*	*	241	*	*
Gambella	-	-	-	-	-	-
Harari	-	-	-	*	*	*
Addis Ababa	-	-	-	*	*	*
Dire Dawa	-	-	-	-	-	-

TABLE 6.19.2h: Rice

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	4594	808	2760	341	431	130	95
Tigray	-	-	-	-	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	3109	477	2051	264	-	-	-
Oromia	1111	220	609	70	339	108	75
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	177	72	*	*	*	*	*
S.N.N.P.R	163	*	*	*	*	*	*
Gambella	34	*	-	-	34	*	*
Harari	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.19.2h CONTD.

Rice						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	225	50	9	1214	287	421

Tigray	-	-	-	-	-	-
Afar	-	-	-	-	-	-
Amhara	*	*	*	940	200	295
Oromia	*	*	*	147	*	*
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	65	*	*
S.N.N.P.R	-	-	-	*	*	*
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.19.3: RURAL BELG

Geographic Area	Cereals						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1477419	181559	1363989	135817	127050	39724	21870
Tigray	22395	2852	10116	1056	332	37	35
Afar	237	79	159	47	-	-	-
Amhara	185210	25467	181469	24345	2654	482	475
Oromia	465034	88313	387249	51214	82078	35107	18806
Somali	1637	646	1633	643	-	-	-
Benishangul-Gumuz	2356	120	2356	120	-	-	-
S.N.N.P.R	796966	63718	777478	58031	41956	4096	2552
Gambella	589	42	589	42	-	-	-
Harari	705	*	705	*	-	-	-
Addis Ababa	*	*	*	*	*	*	*
Dire Dawa	2257	136	2208	133	*	*	*

TABLE 6.19.3 CONTD.

Geographic Area	Cereals					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	8123	1592	1056	32129	4427	4805
Tigray	1102	97	77	11563	1662	2276
Afar	*	*	*	-	-	-
Amhara	1280	240	187	2075	399	411
Oromia	3199	1048	653	4981	944	1034
Somali	*	*	*	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	2411	169	119	13510	1422	1084
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	*	*	*	-	-	-

TABLE 6.19.4: URBAN HOLDINGS

Geographic Area	Cereals							
	Application of		Type of Fertilizer Applied					
							Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	77492	51813	17761	4130	60834	46114	3731	1569
Tigray	5742	3429	903	441	4872	2628	551	360
Afar	17	14	11	11	-	-	*	*
Amhara	9690	5539	2381	427	7523	4960	403	151
Oromia	40698	34227	7919	2175	33435	31324	1548	728

Somali	400	239	313	186	90	44	10	9
Benishangul-Gumuz	693	485	291	60	434	413	19	12
S.N.N.P.R	17955	5758	5504	684	12679	4864	1002	210
Gambella	25	*	*	*	21	*	-	-
Harari	395	105	188	43	113	25	106	37
Addis Ababa	1776	1990	167	89	1657	1844	75	56
Dire Dawa	101	15	80	13	*	*	11	*

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

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1914302	210559	1547616	128779	312943	59572	39219
Tigray	98763	8662	80163	6738	2018	215	246
Afar	181	14	145	13	-	-	-
Amhara	399303	54286	327850	39628	46293	9339	5217
Oromia	693835	90684	522841	47196	136844	32992	21747
Somali	1377	174	1325	166	*	*	-
Benishangul-Gumuz	11774	1656	10337	885	1003	625	584
S.N.N.P.R	702714	53908	601513	33884	125737	16064	11213
Gambella	297	5	293	5	-	-	-
Harari	1653	169	1459	145	*	*	*
Addis Ababa	2908	903	319	26	922	322	200
Dire Dawa	1498	99	1371	92	*	*	*

TABLE 6.20 CONTD.

Geographic Area	Pulses							
	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
National	21976	2449	1565	125147	17968	15355	5120	1792
Tigray	1182	89	80	17902	1513	2272	368	107
Afar	*	*	*	*	*	*	-	-
Amhara	5230	713	419	29823	4513	3744	351	93
Oromia	9920	1298	777	48560	8031	6681	2534	1167
Somali	-	-	-	*	*	-	-	-
Benishangul-Gumuz	*	*	*	334	44	*	*	*
S.N.N.P.R	5207	298	263	26756	3387	2256	1534	274
Gambella	-	-	-	-	*	*	-	-
Harari	163	*	*	108	2	*	*	*
Addis Ababa	117	17	6	1600	469	373	146	69
Dire Dawa	*	*	*	*	*	-	-	-

TABLE 6.20.1: RURAL HOLDINGS

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1906869	208325	1545253	128336	312943	59572	39219
Tigray	98330	8529	80098	6712	2018	215	246
Afar	181	14	145	13	-	-	-
Amhara	398714	54146	327608	39582	46293	9339	5217
Oromia	690629	89354	522160	47032	136844	32992	21747
Somali	1347	144	1296	136	*	*	-
Benishangul-Gumuz	11582	1571	10313	879	1003	625	584

S.N.N.P.R	699898	53464	600199	33714	125737	16064	11213
Gambella	297	5	293	5	-	-	-
Harari	1631	165	1452	145	*	*	*
Addis Ababa	2761	835	319	26	922	322	200
Dire Dawa	1498	99	1371	92	*	*	*

TABLE 6.20.1 CONTD.

Geographic Area	Pulses					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	21976	2449	1565	125147	17968	15355
Tigray	1182	89	80	17902	1513	2272
Afar	*	*	*	*	*	*
Amhara	5230	713	419	29823	4513	3744
Oromia	9920	1298	777	48560	8031	6681
Somali	-	-	-	*	*	-
Benishangul-Gumuz	*	*	*	334	44	*
S.N.N.P.R	5207	298	263	26756	3387	2256
Gambella	-	-	-	-	*	*
Harari	163	*	*	108	2	*
Addis Ababa	117	17	6	1600	469	373
Dire Dawa	*	*	*	*	*	-

TABLE 6.20.2: RURAL MEHER

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1410759	172753	1055484	99425	272322	54115	36814
Tigray	97085	8333	79256	6603	2018	215	246
Afar	136	9	100	8	-	-	-
Amhara	375853	50816	305067	36347	46041	9279	5207
Oromia	563144	79735	395882	38802	130909	31814	21293
Somali	1125	99	1073	91	*	*	-
Benishangul-Gumuz	10525	1549	9236	858	1003	625	584
S.N.N.P.R	357805	31262	262612	16587	91335	11858	9281
Gambella	266	5	262	5	-	-	-
Harari	565	12	310	7	*	*	*
Addis Ababa	2758	834	315	26	922	322	200
Dire Dawa	1498	99	1371	92	*	*	*

TABLE 6.20.2 CONTD.

Geographic Area	Pulses					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	20216	2310	1506	116975	16903	14830
Tigray	1131	88	79	17350	1428	2171
Afar	*	*	*	*	*	*
Amhara	5142	695	416	29641	4494	3715
Oromia	9483	1239	751	46980	7881	6604
Somali	-	-	-	*	*	-
Benishangul-Gumuz	*	*	*	334	44	*
S.N.N.P.R	4039	241	237	20898	2575	1938
Gambella	-	-	-	*	*	-
Harari	*	*	*	108	2	*

Addis Ababa	117	17	6	1600	469	373
Dire Dawa	*	*	*	*	*	-

TABLE 6.20.2a: Horse/Faba beans

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	875648	96117	649375	59134	174161	29393	19890
Tigray	69959	4599	56332	3577	1209	142	161
Afar	-	-	-	-	-	-	-
Amhara	278860	33219	230762	25323	32914	5807	3457
Oromia	314818	42001	212567	22110	87547	17112	11241
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	2133	241	2102	233	*	*	*
S.N.N.P.R	209196	15989	147298	7874	52407	6320	5013
Gambella	*	*	*	*	-	-	-
Harari	*	*	-	-	*	*	*
Addis Ababa	622	*	296	17	*	*	*
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.20.2a CONTD.

Horse/Faba beans						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	7539	679	603	58933	6911	6725
Tigray	609	39	47	12794	842	1302
Afar	-	-	-	-	-	-
Amhara	2840	244	236	15267	1844	1471
Oromia	2166	298	234	17089	2481	2493
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	1886	97	85	13486	1698	1393
Gambella	-	-	-	-	-	-
Harari	*	*	*	-	-	-
Addis Ababa	*	*	*	*	*	*
Dire Dawa	-	-	-	-	-	-

TABLE 6.20.2b: Field peas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	251954	32618	155016	14140	76513	14689	10480
Tigray	11214	736	8992	546	499	48	60
Afar	-	-	-	-	-	-	-
Amhara	66435	8179	48146	4601	14007	2722	1455
Oromia	94440	15866	49162	5511	34971	8253	5943
Somali	*	*	*	*	*	*	-
Benishangul-Gumuz	1177	256	1088	227	67	*	17
S.N.N.P.R	78494	7574	47520	3250	26949	3637	3005
Gambella	*	*	*	*	-	-	-
Harari	111	*	*	*	-	-	-
Addis Ababa	*	*	*	*	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.20.2b CONTD.

Geographic Area	Field peas					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	3768	595	384	18984	3194	2765
Tigray	233	18	*	1542	123	157
Afar	-	-	-	-	-	-
Amhara	1037	159	76	3924	697	668
Oromia	1660	366	254	9427	1737	1517
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	*	*	*
S.N.N.P.R	794	51	33	4045	636	422
Gambella	-	-	-	-	-	-
Harari	*	*	*	*	*	-
Addis Ababa	*	*	*	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.20.2c: Haricot beans

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	327069	22840	266195	13825	38483	6397	4375
Tigray	3643	268	3244	255	-	-	-
Afar	116	*	80	*	-	-	-
Amhara	25876	1228	23908	1060	510	*	*
Oromia	178569	14748	145130	7957	16401	4659	3220
Somali	1041	90	1008	83	-	-	-
Benishangul-Gumuz	6116	347	5754	310	93	*	*
S.N.N.P.R	109784	6044	85387	4054	21404	1686	1134
Gambella	193	4	189	4	-	-	-
Harari	223	7	146	*	*	*	*
Addis Ababa	*	*	-	-	-	-	-
Dire Dawa	1477	97	1349	90	*	*	*

TABLE 6.20.2c CONTD.

Haricot beans						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	7128	498	305	21035	2120	1128
Tigray	*	*	*	321	*	*
Afar	*	*	*	-	-	-
Amhara	452	11	10	1138	120	119
Oromia	5125	403	188	14671	1729	882
Somali	-	-	-	*	*	-
Benishangul-Gumuz	-	-	-	284	22	*
S.N.N.P.R	1319	75	*	4490	228	116
Gambella	-	-	-	*	*	-
Harari	*	*	*	*	*	*
Addis Ababa	*	*	*	*	*	*
Dire Dawa	*	*	*	*	*	-

TABLE 6.20.2d: Chickpeas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	67942	9891	54505	6747	4350	959	552
Tigray	11624	1578	10362	1383	*	*	*
Afar	19	*	15	*	-	-	-
Amhara	22109	3457	18265	2446	528	117	52
Oromia	19717	3146	13916	1782	2179	527	303
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	527	46	517	45	*	*	*
S.N.N.P.R	12343	1198	11209	1074	949	107	81
Gambella	-	-	-	-	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	1348	454	*	*	561	195	108
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.20.2d CONTD.

Chickpeas						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1392	302	83	8007	1884	1464
Tigray	135	*	*	1041	162	185
Afar	-	-	-	*	*	*
Amhara	654	185	*	2720	709	568
Oromia	449	75	26	3269	762	535
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	*	*	*	*	*	*
Gambella	-	-	-	-	-	-
Harari	*	*	*	*	*	*
Addis Ababa	*	*	*	857	246	171
Dire Dawa	-	-	-	-	-	-

TABLE 6.20.2e: Lentils

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	47332	3976	26444	1894	11348	902	466
Tigray	6162	419	4609	316	297	11	17
Afar	*	*	*	*	-	-	-
Amhara	14597	1501	11861	1107	745	119	54
Oromia	19113	1709	6387	345	7165	664	350
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	423	17	405	16	*	*	*
S.N.N.P.R	6444	209	3178	110	2960	91	38
Gambella	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	590	*	-	-	*	16	*
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.20.2e CONTD.

Lentils
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Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	818	87	45	8956	1094	1334
Tigray	-	-	-	1280	92	*
Afar	-	-	-	-	-	-
Amhara	287	*	*	1728	234	226
Oromia	454	38	25	5106	662	684
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	*	*	*
S.N.N.P.R	*	*	*	405	3	1
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	*	*	*	*	*	*
Dire Dawa	-	-	-	-	-	-

TABLE 6.20.2f: Vetch/Grass peas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	26451	3176	20898	2229	1756	349	145
Tigray	4478	632	3600	484	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	11803	1479	9792	1132	477	111	*
Oromia	8173	788	6050	449	945	147	55
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	77	2	77	2	-	-	-
S.N.N.P.R	1452	*	1361	*	*	*	*
Gambella	*	*	*	*	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	450	*	-	-	301	*	*
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.20.2f CONTD.

Vetch/Grass peas						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	263	*	14	3625	562	620
Tigray	*	*	*	906	144	142
Afar	-	-	-	-	-	-
Amhara	*	*	*	1473	232	229
Oromia	*	*	*	1056	168	222
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	-	-	-	*	*	-
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	*	*	*	*	*	*
Dire Dawa	-	-	-	-	-	-

TABLE 6.20.2g: Soya beans

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal

National	3876	861	2426	120	1126	637	596
Tigray	173	*	*	*	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	576	*	399	10	*	*	-
Oromia	1037	119	757	46	185	46	*
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	1145	630	316	17	786	575	550
S.N.N.P.R	945	36	824	*	*	*	*
Gambella	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.20.2g CONTD.

Soya beans						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	60	*	*	274	82	77
Tigray	-	-	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	-	-	-	*	*	*
Oromia	*	*	*	78	*	*
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	*	*
S.N.N.P.R	-	-	-	-	-	-
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.20.2h: Fenugreek

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	49976	2370	36466	892	4132	514	218
Tigray	1329	86	657	26	*	*	*
Afar	-	-	-	-	-	-	-
Amhara	14473	802	9534	231	567	79	57
Oromia	29036	1358	22380	601	2936	407	135
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	103	*	103	*	-	-	-
S.N.N.P.R	4275	47	3749	32	382	*	4
Gambella	*	*	*	*	-	-	-
Harari	*	*	-	-	-	-	-
Addis Ababa	664	75	*	*	229	17	*
Dire Dawa	*	*	*	*	-	-	-

TABLE 6.20.2h CONTD.

Fenugreek						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	777	58	26	8925	906	681
Tigray	*	*	*	643	55	50

Afar	-	-	-	-	-	-
Amhara	170	16	9	4238	476	380
Oromia	448	*	14	3522	316	235
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	*	*	*	*	*	*
Gambella	-	-	-	-	-	-
Harari	*	*	*	-	-	-
Addis Ababa	*	*	*	*	*	14
Dire Dawa	-	-	-	-	-	-

TABLE 6.20.2i: Gibto

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	8329	903	4249	444	2324	276	93
Tigray	-	-	-	-	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	7859	891	3874	436	2237	276	90
Oromia	208	-	121	-	*	-	*
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	-	-	-
S.N.N.P.R	*	*	*	*	-	-	-
Gambella	*	*	*	*	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.20.2i CONTD.

TABLE 6.20.21 CONT'D.

Gibto						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	*	*	*	1745	149	36
Tigray	-	-	-	-	-	-
Afar	-	-	-	-	-	-
Amhara	*	*	*	1737	145	33
Oromia	-	-	-	-	-	-
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	*	*	*
S.N.N.P.R	-	-	-	-	-	-
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.20.3: RURAL BELG

Pulses							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	644638	35571	602871	28911	48361	5457	2405
Tigray	1769	196	1095	110	-	-	-
Afar	45	4	45	4	-	-	-
Amhara	35776	3331	35254	3235	252	*	11
Oromia	167022	9618	156365	8231	8785	1178	454
Somali	328	45	328	45	-	-	-

Benishangul-Gumuz	1156	21	1156	21	-	-	-
S.N.N.P.R	437236	22202	407383	17127	39293	4206	1932
Gambella	*	*	*	*	-	-	-
Harari	1257	153	1211	138	*	*	*
Addis Ababa	*	*	*	*	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.20.3 CONTD.

Geographic Area	Pulses					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1880	139	59	9123	1065	524
Tigray	*	*	*	623	85	100
Afar	-	-	-	-	-	-
Amhara	*	*	*	*	*	*
Oromia	521	*	*	1870	150	76
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	1204	57	25	6435	811	318
Gambella	-	-	-	-	-	-
Harari	*	*	*	-	-	-
Addis Ababa	-	-	-	*	*	*
Dire Dawa	-	-	-	-	-	-

TABLE 6.20.4: URBAN HOLDINGS

Geographic Area	Pulses							
	Application of		Type of Fertilizer Applied					
							Natural and Chemical	
	Holder	Hectar	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	7432	2235	2363	443	4813	1670	307	122
Tigray	433	133	65	*	320	96	48	11
Afar	-	-	-	-	-	-	-	-
Amhara	589	139	243	46	348	93	*	*
Oromia	3206	1331	681	164	2424	1100	110	67
Somali	29	30	29	30	-	-	-	-
Benishangul-Gumuz	191	*	24	6	*	*	*	*
S.N.N.P.R	2815	444	1314	170	1400	235	134	*
Gambella	-	-	-	-	-	-	-	-
Harari	*	*	*	*	*	*	*	*
Addis Ababa	146	69	-	-	146	69	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.21: NUMBER OF HOLDER APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Oil Seeds						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	422768	50789	323402	32380	62453	11269	4767
Tigray	15627	2256	12413	1765	212	*	12
Afar	72	3	50	1	-	-	-
Amhara	207932	23734	152976	13525	34074	5913	1814
Oromia	156436	21674	122825	14578	23095	4935	2837
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	9409	1910	8740	1621	327	99	37

S.N.N.P.R	29292	727	23636	562	4446	123	63
Gambella	24	*	18	*	-	-	-
Harari	3458	442	2312	302	294	37	*
Addis Ababa	76	10	*	*	*	*	-
Dire Dawa	285	17	247	14	-	-	-

TABLE 6.21 CONTD.

Geographic Area	Oil Seeds							
	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
National	9305	1237	742	51802	5583	2036	643	320
Tigray	205	*	12	3033	239	206	38	9
Afar	*	*	-	*	*	*	-	-
Amhara	5375	540	161	35539	3721	1081	156	34
Oromia	2603	427	*	11501	1473	649	364	260
Somali	-	-	-	-	-	-	*	*
Benishangul-Gumuz	204	*	14	188	72	71	*	*
S.N.N.P.R	*	*	*	1224	37	20	20	*
Gambella	-	-	-	-	-	-	*	*
Harari	661	67	21	270	34	*	29	2
Addis Ababa	*	*	-	*	*	*	24	*
Dire Dawa	*	*	-	*	*	-	-	-

TABLE 6.21.1: RURAL HOLDINGS

Geographic Area	Oil Seeds						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	421865	50395	323141	32306	62453	11269	4767
Tigray	15570	2242	12395	1760	212	*	12
Afar	72	3	50	1	-	-	-
Amhara	207734	23694	152932	13520	34074	5913	1814
Oromia	155926	21359	122679	14524	23095	4935	2837
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	9400	1906	8734	1617	327	99	37
S.N.N.P.R	29272	725	23636	562	4446	123	63
Gambella	*	*	*	*	-	-	-
Harari	3395	437	2278	299	294	37	*
Addis Ababa	51	*	*	*	*	*	-
Dire Dawa	285	17	247	14	-	-	-

TABLE 6.21.1 CONTD.

Geographic Area	Oil Seeds					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	9305	1237	742	51802	5583	2036
Tigray	205	*	12	3033	239	206
Afar	*	*	-	*	*	*
Amhara	5375	540	161	35539	3721	1081
Oromia	2603	427	*	11501	1473	649
Somali	-	-	-	-	-	-
Benishangul-Gumuz	204	*	14	188	72	71
S.N.N.P.R	*	*	*	1224	37	20
Gambella	-	-	-	-	-	-
Harari	661	67	21	270	34	*
Addis Ababa	*	*	-	*	*	*

Dire Dawa	*	*	-	*	*	-
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TABLE 6.21.2: RURAL MEHER

Geographic Area	Oil Seeds						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	404237	50134	305597	32088	62180	11226	4755
Tigray	15464	2240	12288	1758	212	*	12
Afar	72	3	50	1	-	-	-
Amhara	203861	23668	149059	13494	34074	5913	1814
Oromia	152435	21270	119313	14477	22890	4892	2826
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	9316	1905	8650	1616	327	99	37
S.N.N.P.R	19214	585	13538	423	4377	123	62
Gambella	*	*	*	*	-	-	-
Harari	3378	433	2261	295	294	37	*
Addis Ababa	51	*	*	*	*	*	-
Dire Dawa	285	17	247	14	-	-	-

TABLE 6.21.2 CONTD.

Geographic Area	Oil Seeds					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	9305	1237	742	51802	5583	2036
Tigray	205	*	12	3033	239	206
Afar	*	*	-	*	*	*
Amhara	5375	540	161	35539	3721	1081
Oromia	2603	427	*	11501	1473	649
Somali	-	-	-	-	-	-
Benishangul-Gumuz	204	*	14	188	72	71
S.N.N.P.R	*	*	*	1224	37	20
Gambella	-	-	-	-	-	-
Harari	661	67	21	270	34	*
Addis Ababa	*	*	-	*	*	*
Dire Dawa	*	*	-	*	*	-

TABLE 6.21.2a: Neug

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
			Holder	Hectare	Holder	Hectare	Quintal
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	87206	24670	66349	17690	13805	4734	1265
Tigray	4359	567	3101	513	*	*	*
Afar	*	*	*	*	-	-	-
Amhara	45514	13909	29335	7984	11685	4137	983
Oromia	33803	9166	30765	8241	1943	573	267
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	2450	849	2336	787	56	*	*
S.N.N.P.R	1073	178	804	164	*	*	*
Gambella	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.21.2a CONTD.

Neug						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1588	401	*	7142	1845	823
Tigray	*	*	*	1310	53	60
Afar	-	-	-	-	-	-
Amhara	1207	318	69	4760	1470	584
Oromia	287	81	*	911	271	142
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	*	*	*
S.N.N.P.R	*	*	*	*	*	*
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.21.2b: Linseed

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	65423	7513	42318	3396	15821	3308	1408
Tigray	6506	376	5239	304	91	*	*
Afar	-	-	-	-	-	-	-
Amhara	18395	1655	14250	1096	1946	309	164
Oromia	31767	5237	18737	1878	10294	2898	1199
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	506	23	486	21	*	*	*
S.N.N.P.R	8233	217	3600	95	3487	98	42
Gambella	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	*	*	*	*	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.21.2b CONTD.

Linseed						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1143	96	53	6464	713	530
Tigray	*	*	*	1085	65	61
Afar	-	-	-	-	-	-
Amhara	492	*	*	1743	205	171
Oromia	396	47	*	2627	415	281
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	*	*	*
S.N.N.P.R	*	*	*	982	23	10
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	*	*	*
Dire Dawa	-	-	-	-	-	-

TABLE 6.21.2c: Ground nuts

Geographic	Total Fertilized	Type of Fertilizer Applied
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Area	Cropland		Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	24182	3284	20059	2563	1454	194	24
Tigray	*	*	-	-	-	-	-
Afar	*	*	*	*	-	-	-
Amhara	470	26	353	*	*	*	*
Oromia	18307	2707	15623	2142	1002	155	20
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	1013	44	951	38	*	*	*
S.N.N.P.R	599	51	496	48	*	*	*
Gambella	*	*	*	*	-	-	-
Harari	3378	431	2261	295	294	37	*
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	229	14	209	12	-	-	-

TABLE 6.21.2c CONTD.

Ground nuts						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1832	251	64	1406	275	105
Tigray	-	-	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	*	*	-	-	-	-
Oromia	1122	179	43	1013	230	91
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	44	3	*
S.N.N.P.R	-	-	-	*	*	-
Gambella	-	-	-	-	-	-
Harari	661	66	21	270	34	*
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	*	*	-

TABLE 6.21.2d: Sufflower

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	17960	782	11723	285	1741	96	29
Tigray	627	19	376	11	*	*	-
Afar	41	1	26	1	-	-	-
Amhara	12277	518	8053	192	1096	60	*
Oromia	4461	228	2875	76	489	27	13
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	156	*	109	*	*	*	-
S.N.N.P.R	399	*	284	*	*	*	*
Gambella	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.21.2d CONTD.

Sufflower						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1259	67	31	3375	334	50

Tigray	*	*	*	232	7	*
Afar	*	*	-	*	*	*
Amhara	1086	54	*	2075	213	*
Oromia	116	*	*	1060	114	10
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	-	-	-
S.N.N.P.R	-	-	-	-	-	-
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.21.2e: Sesame

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	26319	3975	23575	3227	879	293	77
Tigray	3988	1260	3555	919	83	*	*
Afar	*	*	*	*	-	-	-
Amhara	10051	869	8886	778	154	*	*
Oromia	7933	914	7229	816	478	61	*
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	4109	924	3712	710	164	71	26
S.N.N.P.R	*	*	*	*	-	-	-
Gambella	*	*	*	*	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	*	*	*	*	-	-	-

TABLE 6.21.2e CONTD.

Sesame						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	925	250	39	1042	205	149
Tigray	*	*	*	292	108	81
Afar	-	-	-	*	*	-
Amhara	552	*	6	513	52	*
Oromia	*	*	*	164	*	*
Somali	-	-	-	-	-	-
Benishangul-Gumuz	174	*	11	62	27	*
S.N.N.P.R	-	-	-	-	-	-
Gambella	-	-	-	-	-	-
Harari	*	*	-	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	*	*	-	-	-	-

TABLE 6.21.2f: Rapeseed

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	209378	9910	156181	4927	31447	2600	1951
Tigray	527	15	407	11	-	-	-
Afar	-	-	-	-	-	-	-

Amhara	134222	6690	95668	3424	21426	1402	658
Oromia	63478	3017	49772	1325	9247	1179	1286
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	2080	62	1977	58	83	*	*
S.N.N.P.R	9036	127	8333	110	685	*	*
Gambella	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	36	*	*	*	*	*	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.21.2f CONTD.

Rapeseed						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	2795	171	75	33309	2211	379
Tigray	-	-	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	2172	83	34	27195	1780	272
Oromia	604	88	*	5879	426	105
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	*	*
S.N.N.P.R	-	-	-	*	*	*
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	*	*	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.21.2g: Other Grains

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	216170	6659	200520	4840	7819	1059	902
Tigray	1482	45	1130	25	-	-	-
Afar	*	*	*	*	-	-	-
Amhara	41774	2265	35709	1394	1033	394	170
Oromia	86457	1971	80878	1240	4104	548	*
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	2660	37	2511	35	*	*	*
S.N.N.P.R	83590	2332	80143	2143	2636	117	88
Gambella	50	*	50	*	-	-	-
Harari	*	*	-	-	-	-	-
Addis Ababa	*	*	-	-	-	-	-
Dire Dawa	*	*	*	*	-	-	-

TABLE 6.21.2g CONTD.

Other Grains						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	3310	177	172	5558	582	536
Tigray	-	-	-	376	20	29
Afar	*	*	*	-	-	-
Amhara	2331	120	110	2973	356	313
Oromia	396	15	*	1496	168	134

Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	*	*
S.N.N.P.R	507	36	45	626	36	52
Gambella	-	-	-	-	-	-
Harari	-	-	-	*	*	-
Addis Ababa	-	-	-	*	*	*
Dire Dawa	-	-	-	*	*	*

TABLE 6.21.3: RURAL BELG

Geographic Area	Oil Seeds						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	19634	261	19433	218	273	*	*
Tigray	*	*	*	*	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	5276	26	5276	26	-	-	-
Oromia	3785	90	3608	47	204	*	*
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	-	-	-
S.N.N.P.R	10365	*	10342	*	*	-	*
Gambella	-	-	-	-	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.21.4: URBAN HOLDINGS

Geographic Area	Oil Seeds							
	Application of		Type of Fertilizer Applied					
							Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	903	394	261	73	599	317	46	3
Tigray	57	14	19	*	38	9	-	-
Afar	-	-	-	-	-	-	-	-
Amhara	198	40	44	6	142	34	*	*
Oromia	510	315	146	*	356	260	8	*
Somali	12	*	8	1	*	*	-	-
Benishangul-Gumuz	*	*	*	*	*	*	-	-
S.N.N.P.R	20	*	-	-	*	*	5	*
Gambella	*	*	*	*	*	*	-	-
Harari	63	5	34	*	*	*	19	*
Addis Ababa	24	*	-	-	24	*	-	-
Dire Dawa	-	-	-	-	-	-	-	-

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

Geographic Area	Vegetables						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	2141368	51186	1977652	32499	77937	6007	8711
Tigray	63181	1468	51148	650	620	5	10
Afar	213	81	141	*	-	-	-
Amhara	472952	11176	409609	6844	12923	460	616
Oromia	741407	18418	688876	11895	33484	2165	3620
Somali	688	41	555	37	*	*	*
Benishangul-Gumuz	18594	539	16635	435	385	18	7
S.N.N.P.R	838923	19158	806773	12514	30217	3351	4446
Gambella	1007	18	973	15	*	*	*
Harari	773	12	503	9	*	*	*

Addis Ababa	1914	206	810	16	*	*	*
Dire Dawa	1715	69	1630	66	*	*	*

TABLE 6.22 CONTD.

Geographic Area	Vegetables							
	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
National	61094	4204	4333	81719	7752	16092	2400	723
Tigray	1613	27	72	11070	*	726	73	5
Afar	*	*	*	-	-	-	21	*
Amhara	37000	1877	1331	25039	1923	2130	359	72
Oromia	12678	1120	1646	29578	2912	9503	782	325
Somali	*	*	*	-	-	-	19	1
Benishangul-Gumuz	1589	54	25	606	29	13	*	*
S.N.N.P.R	7774	1104	1247	14773	2090	3642	717	99
Gambella	-	-	-	*	*	-	-	-
Harari	177	*	6	*	*	*	*	*
Addis Ababa	82	1	*	*	18	75	419	170
Dire Dawa	*	*	*	-	-	-	-	-

TABLE 6.22.1: RURAL HOLDINGS

Geographic Area	Vegetables						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	2132520	50158	1971123	32194	77937	6007	8711
Tigray	63048	1438	51087	625	620	5	10
Afar	188	*	137	*	-	-	-
Amhara	472309	11091	409315	6831	12923	460	616
Oromia	739304	17960	687534	11763	33484	2165	3620
Somali	650	39	537	36	*	*	*
Benishangul-Gumuz	18555	532	16603	431	385	18	7
S.N.N.P.R	833585	18942	802103	12396	30217	3351	4446
Gambella	1007	18	973	15	*	*	*
Harari	760	12	492	9	*	*	*
Addis Ababa	1407	27	722	7	*	*	*
Dire Dawa	1707	69	1621	65	*	*	*

TABLE 6.22.1 CONTD.

Geographic Area	Vegetables					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	61094	4204	4333	81719	7752	16092
Tigray	1613	27	72	11070	*	726
Afar	*	*	*	-	-	-
Amhara	37000	1877	1331	25039	1923	2130
Oromia	12678	1120	1646	29578	2912	9503
Somali	*	*	*	-	-	-
Benishangul-Gumuz	1589	54	25	606	29	13
S.N.N.P.R	7774	1104	1247	14773	2090	3642
Gambella	-	-	-	*	*	-
Harari	177	*	6	*	*	*
Addis Ababa	82	1	*	*	18	75
Dire Dawa	*	*	*	-	-	-

TABLE 6.22.2: RURAL MEHER

Geographic Area	Vegetables						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1814567	42375	1658809	25565	74182	5878	8553
Tigray	53488	1041	44911	444	546	4	8
Afar	98	2	90	2	-	-	-
Amhara	439773	10320	379049	6193	11456	424	574
Oromia	673773	15474	623337	10023	31980	2088	3521
Somali	603	38	502	35	*	*	*
Benishangul-Gumuz	17740	515	15608	414	385	18	7
S.N.N.P.R	625340	14930	592488	8412	29532	3338	4431
Gambella	960	17	926	15	*	*	*
Harari	695	5	455	3	*	*	*
Addis Ababa	1320	14	712	7	*	*	*
Dire Dawa	777	19	730	18	-	-	-

TABLE 6.22.2 CONTD.

Geographic Area	Vegetables					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	56310	3853	3818	74659	7080	14119
Tigray	872	9	40	7486	*	307
Afar	*	*	-	-	-	-
Amhara	35113	1802	1233	24591	1901	2101
Oromia	11097	886	1270	26874	2477	8049
Somali	*	*	*	-	-	-
Benishangul-Gumuz	1589	54	25	606	29	13
S.N.N.P.R	7334	1098	1243	14597	2083	3632
Gambella	-	-	-	-	*	*
Harari	149	*	4	*	*	*
Addis Ababa	71	*	1	*	5	15
Dire Dawa	*	*	*	-	-	-

TABLE 6.22.2a: Lettuce

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	5282	86	3280	25	189	*	*
Tigray	982	5	547	1	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	759	*	608	3	-	-	-
Oromia	2681	73	1297	19	155	*	*
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	*	*	*	*	-	-	-
S.N.N.P.R	627	*	600	*	*	*	*
Gambella	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	*	*	*	*	*	*	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.22.2a CONTD.

Lettuce						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	959	32	*	1046	24	53
Tigray	*	*	*	351	2	6
Afar	-	-	-	-	-	-
Amhara	-	-	-	*	*	-
Oromia	875	*	*	545	*	*
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	-	-	-	-	-	-
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.22.2b: Head Cabbage

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	22331	336	16976	192	1699	*	*
Tigray	819	7	526	4	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	3878	32	3581	25	*	*	*
Oromia	12466	259	8734	*	878	*	*
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	372	1	334	1	*	*	*
S.N.N.P.R	4638	34	3746	24	745	*	12
Gambella	-	-	-	-	-	-	-
Harari	*	*	-	-	-	-	-
Addis Ababa	75	3	26	*	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.22.2b CONTD.

Head Cabbage						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1881	38	*	2000	76	222
Tigray	*	*	*	*	*	*
Afar	-	-	-	-	-	-
Amhara	*	*	*	*	*	*
Oromia	1390	35	*	1490	64	198
Somali	*	*	*	-	-	-
Benishangul-Gumuz	*	*	*	*	*	*
S.N.N.P.R	*	*	*	*	*	*
Gambella	-	-	-	-	-	-
Harari	*	*	*	-	-	-
Addis Ababa	*	*	-	45	2	8
Dire Dawa	-	-	-	-	-	-

TABLE 6.22.2c: Kale

Geographic	Total Fertilized	Type of Fertilizer Applied
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Area	Cropland		Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	862819	8409	846993	8121	11663	170	257
Tigray	381	*	301	2	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	41936	163	41065	141	204	*	*
Oromia	326306	3188	319134	3041	4475	89	159
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	387	5	343	2	*	*	-
S.N.N.P.R	492313	5033	485233	4926	6827	70	83
Gambella	529	*	529	*	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	954	8	375	*	*	1	*
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.22.2c CONTD.

Kale						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	2923	26	51	5231	92	138
Tigray	-	-	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	303	*	4	383	11	*
Oromia	999	9	34	2683	49	80
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	*	-
S.N.N.P.R	1532	15	13	1682	22	25
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	66	*	1	*	*	*
Dire Dawa	-	-	-	-	-	-

TABLE 6.22.2d: Tomatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	22366	895	16511	298	1152	102	157
Tigray	2883	49	1674	24	*	*	*
Afar	*	*	*	*	-	-	-
Amhara	4446	74	4027	51	-	-	-
Oromia	11015	700	7160	156	912	99	152
Somali	350	*	279	*	*	*	*
Benishangul-Gumuz	289	2	268	2	-	-	-
S.N.N.P.R	2491	18	2276	18	*	*	*
Gambella	92	*	87	*	*	*	*
Harari	-	-	-	-	-	-	-
Addis Ababa	*	*	-	-	-	-	-
Dire Dawa	771	19	725	18	-	-	-

TABLE 6.22.2d CONTD.

Tomatoes	
Geographic	Type of Fertilizer Applied

Area	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	668	43	50	4168	452	1161
Tigray	136	*	*	1090	22	57
Afar	*	*	-	-	-	-
Amhara	*	*	*	*	*	*
Oromia	260	27	40	2782	419	1101
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	*	*	-
S.N.N.P.R	-	-	-	*	*	*
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	*	*	*
Dire Dawa	*	*	*	-	-	-

TABLE 6.22.2e: Green Peppers

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	219097	1931	204354	1659	5264	93	166
Tigray	14177	118	10861	85	*	*	*
Afar	*	*	*	*	-	-	-
Amhara	44437	364	41395	305	945	*	*
Oromia	135830	1178	128570	1018	3799	66	125
Somali	120	*	120	*	-	-	-
Benishangul-Gumuz	1100	13	1003	11	*	*	*
S.N.N.P.R	23066	254	22170	236	447	*	*
Gambella	74	*	64	*	*	*	*
Harari	*	*	*	*	-	-	-
Addis Ababa	207	*	108	*	-	-	-
Dire Dawa	*	*	*	*	-	-	-

TABLE 6.22.2e CONTD.

Green Peppers							
Geographic Area	Type of Fertilizer Applied						
	UREA			DAP & UREA			Quintal
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	
National	3250	57	128	7095	122	237	
Tigray	207	1	*	3087	31	79	
Afar	-	-	-	-	-	-	
Amhara	1259	30	62	994	14	33	
Oromia	1505	23	43	2647	71	116	
Somali	-	-	-	-	-	-	
Benishangul-Gumuz	*	*	*	*	*	*	
S.N.N.P.R	*	*	*	*	*	*	
Gambella	-	-	-	-	-	-	
Harari	-	-	-	*	*	*	
Addis Ababa	-	-	-	*	*	*	
Dire Dawa	-	-	-	-	-	-	

TABLE 6.22.2f: Red Peppers

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	633548	26623	496371	11799	53827	5386	7821

Tigray	34657	437	30918	312	461	3	5
Afar	49	1	41	1	-	-	-
Amhara	337510	9243	280259	5296	9443	370	497
Oromia	182625	8338	144709	4032	22345	1763	3003
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	11081	327	9133	241	310	17	5
S.N.N.P.R	67536	8276	31240	1917	21270	3234	4311
Gambella	57	*	57	*	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.22.2f CONTD.

Geographic Area	Red Peppers					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	46690	3633	3216	54131	5805	12222
Tigray	338	2	2	2993	*	110
Afar	*	*	-	-	-	-
Amhara	33193	1748	1158	22064	1830	2043
Oromia	6258	753	806	16316	1791	6465
Somali	-	-	-	-	-	-
Benishangul-Gumuz	1532	52	24	317	17	13
S.N.N.P.R	5344	1078	1225	12442	2047	3591
Gambella	-	-	-	-	-	-
Harari	*	*	*	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.22.2g: Swiss chard

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied					
			Natural		Dap			
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
National	11405	49	10037	44	368	*	*	*
Tigray	1412	5	736	3	*	*	*	*
Afar	-	-	-	-	-	-	-	-
Amhara	3596	13	3578	13	-	-	-	-
Oromia	3636	11	3132	8	*	*	*	*
Somali	-	-	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	-	-	-	-
S.N.N.P.R	2706	*	2541	*	*	*	*	*
Gambella	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	46	*	41	*	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.22.2g CONTD.

Geographic Area	Swiss chard					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	246	2	*	768	3	13
Tigray	*	*	*	518	2	8
Afar	-	-	-	-	-	-

Amhara	-	-	-	*	*	*
Oromia	*	*	*	*	*	*
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	-	-	-	-	-	-
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	*	*	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.22.2h: Other Vegetables

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	272412	4046	265347	3428	3134	91	97
Tigray	1156	*	910	13	-	-	-
Afar	*	*	*	*	-	-	-
Amhara	27788	426	26220	359	857	30	41
Oromia	115187	1728	111112	1613	1441	43	41
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	6154	166	5922	157	*	*	*
S.N.N.P.R	120591	1294	119875	1270	*	*	*
Gambella	332	11	303	8	*	*	-
Harari	615	5	439	3	*	*	*
Addis Ababa	365	3	342	2	*	*	*
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.22.2h CONTD.

Other Vegetables						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1161	22	22	3943	*	74
Tigray	-	-	-	246	*	*
Afar	-	-	-	-	-	-
Amhara	*	*	*	852	*	*
Oromia	734	8	13	2233	64	37
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	188	8	-
S.N.N.P.R	*	*	*	367	*	*
Gambella	-	-	-	-	*	*
Harari	109	*	*	*	*	*
Addis Ababa	-	-	-	*	*	*
Dire Dawa	-	-	-	-	-	-

TABLE 6.22.3: RURAL BELG

Vegetables						
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied			
			Natural		Dap	
	Holder	Hectare	Holder	Hectare	Holder	Quintal
National	503073	7783	487219	6629	4119	129
Tigray	11463	397	6985	181	*	*
Afar	*	*	*	*	-	-
Amhara	40369	770	36636	638	1467	36
Oromia	125135	2486	118778	1739	1868	77
Somali	47	1	34	1	-	-

Benishangul-Gumuz	1636	17	1636	17	-	-	-
S.N.N.P.R	322642	4012	321683	3984	686	14	14
Gambella	*	*	*	*	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	208	*	*	*	-	-	-
Dire Dawa	1338	50	1275	47	*	*	*

TABLE 6.22.3 CONTD.

Geographic Area	Vegetables					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	5353	352	515	8309	673	1973
Tigray	778	18	32	4312	196	420
Afar	*	*	*	-	-	-
Amhara	1937	75	*	448	22	29
Oromia	2063	234	376	3204	435	1454
Somali	*	*	*	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	441	*	*	*	*	*
Gambella	-	-	-	-	-	-
Harari	*	*	*	-	-	-
Addis Ababa	*	*	*	*	*	*
Dire Dawa	*	*	*	-	-	-

TABLE 6.22.4: URBAN HOLDINGS

Geographic Area	Vegetables							
	Application of		Type of Fertilizer Applied					
							Natural and	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectar
National	8848	1028	6528	305	2071	593	342	*
Tigray	133	30	61	*	55	5	17	*
Afar	26	*	*	*	21	*	-	-
Amhara	643	85	294	13	326	63	33	*
Oromia	2103	458	1342	133	711	309	76	16
Somali	37	2	18	1	19	1	-	-
Benishangul-Gumuz	39	7	32	4	*	*	-	-
S.N.N.P.R	5338	217	4670	118	667	98	53	1
Gambella	-	-	-	-	-	-	-	-
Harari	13	*	11	*	*	*	-	-
Addis Ababa	507	179	88	*	262	67	162	*
Dire Dawa	8	1	8	1	-	-	-	-

TABLE 6.23: NUMBER OF HOLDER APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	2437684	163280	2119109	111951	343729	33748	35990
Tigray	35518	1203	21504	450	756	25	34
Afar	370	280	32	*	*	*	*
Amhara	630204	44669	544099	34523	74951	7166	6822
Oromia	863065	56380	724694	30678	124774	16589	14184
Somali	1438	65	1214	51	*	*	*
Benishangul-Gumuz	14184	430	13789	382	175	9	4
S.N.N.P.R	885585	59683	809278	45737	142363	9853	14759
Gambella	725	12	712	12	*	*	-
Harari	1457	65	672	26	*	*	*
Addis Ababa	2837	*	966	18	*	*	*
Dire Dawa	2300	80	2149	73	-	-	-

TABLE 6.23 CONTD.

Geographic Area	Root Crops								
	Type of Fertilizer Applied								
	UREA			DAP & UREA			Chemical (Urban)		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	
National	53492	2900	3811	138024	13594	20804	3205		1087
Tigray	1681	50	95	13823	670	1489	63		8
Afar	284	187	185	*	*	*	45		51
Amhara	21627	1115	1352	30559	1804	2465	256		61
Oromia	17729	1088	1532	53076	7415	13486	1588		611
Somali	*	*	*	*	*	*	*		*
Benishangul-Gumuz	168	*	*	304	18	*	52		13
S.N.N.P.R	11323	434	613	38624	3595	3220	909		64
Gambella	*	*	-	-	-	-	-		-
Harari	215	4	6	307	8	*	*		*
Addis Ababa	227	5	11	*	79	129	273		*
Dire Dawa	*	*	*	-	-	-	-		-

TABLE 6.23.1: RURAL HOLDINGS

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	2428911	161575	2113382	111332	343729	33748	35990
Tigray	35439	1181	21487	437	756	25	34
Afar	321	228	*	*	*	*	*
Amhara	629529	44565	543668	34481	74951	7166	6822
Oromia	860220	55655	723410	30563	124774	16589	14184
Somali	1412	58	1202	50	*	*	*
Benishangul-Gumuz	14110	413	13760	378	175	9	4
S.N.N.P.R	880906	59190	805393	45309	142363	9853	14759
Gambella	725	12	712	12	*	*	-
Harari	1448	64	669	25	*	*	*
Addis Ababa	2505	129	906	6	*	*	*
Dire Dawa	2297	79	2146	72	-	-	-

TABLE 6.23.1 CONTD.

Geographic Area	Root Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	53492	2900	3811	138024	13594	20804
Tigray	1681	50	95	13823	670	1489
Afar	284	187	185	*	*	*
Amhara	21627	1115	1352	30559	1804	2465
Oromia	17729	1088	1532	53076	7415	13486
Somali	*	*	*	*	*	*
Benishangul-Gumuz	168	*	*	304	18	*
S.N.N.P.R	11323	434	613	38624	3595	3220
Gambella	*	*	-	-	-	-
Harari	215	4	6	307	8	*
Addis Ababa	227	5	11	*	79	129
Dire Dawa	*	*	*	-	-	-

TABLE 6.23.2: RURAL MEHER

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1666138	60901	1485481	44606	126238	8534	9488
Tigray	21927	409	15352	214	249	*	19
Afar	285	*	*	*	*	*	*
Amhara	396849	8882	348012	5828	29881	1939	1821
Oromia	606457	23545	530563	14212	44608	4159	4053
Somali	1224	48	1025	42	*	*	*
Benishangul-Gumuz	12078	241	11643	206	175	9	4
S.N.N.P.R	621459	27363	575438	24031	50682	2320	3416
Gambella	704	12	691	12	*	*	-
Harari	1368	52	643	21	*	*	*
Addis Ababa	2458	122	870	5	*	*	*
Dire Dawa	1329	38	1221	35	-	-	-

TABLE 6.23.2 CONTD.

Geographic Area	Root Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	32837	1259	1844	75380	6501	10211
Tigray	814	17	32	6125	168	547
Afar	261	151	152	-	-	-
Amhara	13741	333	509	17597	783	1189
Oromia	12859	599	926	36580	4576	6934
Somali	*	*	*	*	*	*
Benishangul-Gumuz	168	*	*	304	18	*
S.N.N.P.R	4385	137	197	13225	874	1418
Gambella	*	*	-	-	-	-
Harari	215	4	6	307	8	*
Addis Ababa	221	5	*	*	72	109
Dire Dawa	*	*	*	-	-	-

TABLE 6.23.2a: Beetroot

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	33373	245	27805	146	2691	31	36
Tigray	186	*	*	*	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	3567	24	3284	19	*	*	*
Oromia	20873	179	17076	103	1539	26	26
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	224	*	224	*	-	-	-
S.N.N.P.R	8380	35	7124	23	1045	*	10
Gambella	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	84	4	31	*	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.23.2a CONTD.

Beetroot
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Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1217	22	83	2016	46	79
Tigray	-	-	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	*	*	*	*	*	*
Oromia	917	19	80	1498	32	61
Somali	*	*	*	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	*	*	*	*	*	*
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	*	*	-	48	3	*
Dire Dawa	-	-	-	-	-	-

TABLE 6.23.2b: Carrot

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	20249	380	14799	124	2188	91	183
Tigray	1335	19	723	12	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	4690	61	4161	53	*	*	*
Oromia	8241	171	5543	46	1246	48	51
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	261	1	261	1	-	-	-
S.N.N.P.R	4933	17	4059	10	717	*	3
Gambella	*	*	*	*	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	781	112	43	*	*	*	*
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.23.2b CONTD.

Carrot						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1270	22	41	2376	143	207
Tigray	*	*	*	423	4	7
Afar	-	-	-	-	-	-
Amhara	*	*	*	*	*	*
Oromia	555	13	26	984	64	102
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	200	*	2	*	*	*
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	71	4	*	*	67	89
Dire Dawa	-	-	-	-	-	-

TABLE 6.23.2c: Onions

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	286946	6132	246374	3005	15806	1201	1433

Tigray	6864	124	3783	42	*	*	*
Afar	271	*	*	*	*	*	*
Amhara	69405	1340	56904	614	3329	216	343
Oromia	131944	3726	110861	1673	9896	899	1013
Somali	356	*	323	*	-	-	-
Benishangul-Gumuz	1122	9	991	5	39	*	*
S.N.N.P.R	76389	712	73031	642	2444	47	54
Gambella	*	*	*	*	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	219	1	183	1	*	*	*
Dire Dawa	336	*	247	*	-	-	-

TABLE 6.23.2c CONTD.

Onions						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	9401	558	657	17641	1367	3152
Tigray	236	*	*	2861	78	249
Afar	261	151	152	-	-	-
Amhara	5157	238	312	4742	273	476
Oromia	2935	147	172	9415	1007	2415
Somali	*	*	*	-	-	-
Benishangul-Gumuz	*	*	*	*	*	*
S.N.N.P.R	621	*	*	562	8	10
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	*	*	*	*	*	*
Dire Dawa	*	*	*	-	-	-

TABLE 6.23.2d: Potatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	528292	24607	405576	13351	90968	6480	6923
Tigray	7068	164	5479	102	*	*	*
Afar	*	*	*	*	-	-	-
Amhara	126997	6249	96006	4125	25128	1679	1412
Oromia	169719	11006	125304	4772	25267	2832	2565
Somali	*	9	*	*	*	*	*
Benishangul-Gumuz	1573	46	1454	34	*	*	*
S.N.N.P.R	221900	7105	176708	4305	40207	1938	2918
Gambella	-	-	-	-	-	-	-
Harari	361	*	91	*	*	*	*
Addis Ababa	25	*	*	*	-	-	-
Dire Dawa	*	*	*	*	-	-	-

TABLE 6.23.2d CONTD.

Potatoes						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	8519	438	597	35970	4338	5342

Tigray	244	*	*	1287	45	104
Afar	-	-	-	-	-	-
Amhara	908	36	49	6673	409	476
Oromia	5124	298	390	17370	3103	3686
Somali	-	-	-	*	*	*
Benishangul-Gumuz	*	*	*	*	*	*
S.N.N.P.R	2161	*	*	10407	769	1063
Gambella	-	-	-	-	-	-
Harari	*	*	*	*	*	*
Addis Ababa	-	-	-	*	*	*
Dire Dawa	*	*	*	-	-	-

TABLE 6.23.2e: Garlic

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	426565	2644	396238	2319	8749	102	197
Tigray	8943	70	6561	46	*	*	*
Afar	-	-	-	-	-	-	-
Amhara	236413	1144	220819	979	2295	22	54
Oromia	150515	1123	140382	995	5144	75	115
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	2333	12	2212	12	58	*	*
S.N.N.P.R	26506	*	25285	*	1061	4	15
Gambella	*	*	*	*	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	*	4	653	2	*	*	*
Dire Dawa	*	*	*	*	-	-	-

TABLE 6.23.2e CONTD.

Garlic						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	9483	66	311	13805	157	565
Tigray	204	*	*	2151	22	*
Afar	-	-	-	-	-	-
Amhara	7516	56	146	6860	88	225
Oromia	1506	9	*	3971	44	155
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	*	*
S.N.N.P.R	*	*	*	*	*	*
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	*	*	*	*	*	*
Dire Dawa	-	-	-	-	-	-

TABLE 6.23.2f: Taro

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	349414	9154	346675	8953	2332	137	214
Tigray	-	-	-	-	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	*	*	*	*	-	-	-
Oromia	130360	3601	128687	3439	1500	108	187
Somali	-	-	-	-	-	-	-

Benishangul-Gumuz	395	5	364	4	-	-	-
S.N.N.P.R	218203	5540	217169	5501	832	29	27
Gambella	424	8	424	8	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.23.2f CONTD.

Geographic Area	Taro					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	311	*	*	1005	58	117
Tigray	-	-	-	-	-	-
Afar	-	-	-	-	-	-
Amhara	-	-	-	-	-	-
Oromia	*	*	*	620	50	109
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	*	-
S.N.N.P.R	189	3	*	363	*	*
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.23.2g: Sweet potatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	371002	15640	352507	14816	8596	415	470
Tigray	190	*	*	*	*	*	*
Afar	*	*	*	*	-	-	-
Amhara	2722	62	2583	36	*	*	*
Oromia	109671	3554	99293	3152	2472	109	79
Somali	*	*	74	4	*	*	*
Benishangul-Gumuz	5682	90	5577	84	*	2	*
S.N.N.P.R	250449	11869	243227	11491	5892	278	377
Gambella	184	4	174	4	*	*	-
Harari	1006	28	523	18	*	*	*
Addis Ababa	*	*	*	*	-	-	-
Dire Dawa	971	25	951	25	-	-	-

TABLE 6.23.2g CONTD.

Geographic Area	Sweet potatoes					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	4747	122	126	7942	287	610
Tigray	-	-	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	*	*	*	*	*	*
Oromia	3362	91	76	5831	201	280
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	*	-
S.N.N.P.R	1139	26	44	1677	74	*

Gambella	-	-	-	-	-	-
Harari	177	*	5	229	5	*
Addis Ababa	-	-	-	-	-	-
Dire Dawa	*	*	-	-	-	-

TABLE 6.23.2h: Other Root Crops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	57736	2098	56492	1892	670	*	32
Tigray	411	30	244	*	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	296	1	296	1	-	-	-
Oromia	2096	185	1682	30	*	*	*
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	2805	79	2700	66	-	-	-
S.N.N.P.R	52002	1803	51467	1783	573	*	*
Gambella	*	*	*	*	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.23.2h CONTD.

Other Root Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	*	*	*	609	104	*
Tigray	*	*	*	149	18	*
Afar	-	-	-	-	-	-
Amhara	-	-	-	-	-	-
Oromia	*	*	*	290	*	*
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	*	-
S.N.N.P.R	*	*	-	*	*	-
Gambella	*	*	-	-	-	-
Harari	-	-	-	*	*	*
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.22.3: RURAL BELG

Root Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1348058	100673	1069720	66726	267864	25214	26502
Tigray	16367	773	7205	223	506	16	14
Afar	58	39	*	*	-	-	-
Amhara	340807	35683	273138	28653	55341	5227	5001
Oromia	389439	32109	279596	16351	94329	12430	10131
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	3294	172	3294	172	-	-	-
S.N.N.P.R	596337	31828	505046	21278	117566	7532	11343
Gambella	*	*	*	*	-	-	-
Harari	*	*	*	*	*	*	*
Addis Ababa	126	7	46	*	-	-	-

Dire Dawa	1222	41	1116	38	-	-	-
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TABLE 6.23.3 CONTD.

Geographic Area	Root Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	22870	1641	1967	72248	7093	10593
Tigray	867	33	62	8604	502	942
Afar	*	*	32	*	*	*
Amhara	8774	782	843	13722	1021	1275
Oromia	5803	489	606	21500	2839	6552
Somali	-	-	-	*	*	*
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	7269	297	416	28322	2721	1802
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	*	*	*	80	6	21
Dire Dawa	*	*	*	-	-	-

TABLE 6.23.4: URBAN HOLDINGS

Geographic Area	Root Crops							
	Application of		Type of Fertilizer Applied					
							Natural and	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	8773	1705	5727	619	2662	775	569	*
Tigray	80	*	17	*	51	7	*	*
Afar	49	52	*	*	41	44	*	*
Amhara	675	103	431	43	214	52	48	8
Oromia	2845	726	1284	115	1355	573	246	38
Somali	25	*	12	1	*	*	-	-
Benishangul-Gumuz	75	16	28	*	28	7	24	6
S.N.N.P.R	4680	493	3886	428	825	57	88	7
Gambella	-	-	-	-	-	-	-	-
Harari	9	*	*	*	*	*	-	-
Addis Ababa	332	*	60	*	128	26	149	*
Dire Dawa	*	*	*	*	-	-	-	-

TABLE 6.24: NUMBER OF HOLDER APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Permanent Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	3580671	259207	3491492	245426	44681	3104	1156
Tigray	50666	1505	45845	1321	307	4	*
Afar	*	*	*	*	-	-	-
Amhara	550610	11604	535513	11026	5537	123	87
Oromia	1429020	111546	1370197	101543	23993	2146	609
Somali	7877	1362	7410	1234	180	*	*
Benishangul-Gumuz	23286	660	22623	618	191	3	*
S.N.N.P.R	1501270	130404	1495664	128427	13263	613	391
Gambella	1643	76	1561	73	*	*	*
Harari	9143	1404	5835	581	1080	157	58
Addis Ababa	796	20	743	14	*	*	-
Dire Dawa	5524	521	5266	485	*	*	*

TABLE 6.24 CONTD.

Permanent Crops								
Geographic Area	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
National	40666	3649	993	76032	6131	1828	3496	897
Tigray	491	*	*	4597	145	131	89	23
Afar	-	-	-	-	-	-	-	-
Amhara	5219	63	97	11554	355	106	148	37
Oromia	25220	2636	653	48476	4620	1288	1746	600
Somali	143	*	*	228	33	*	*	*
Benishangul-Gumuz	360	5	7	539	28	*	20	*
S.N.N.P.R	6552	509	93	8768	667	231	1350	189
Gambella	42	*	*	-	-	-	*	*
Harari	2386	354	128	1787	276	64	101	*
Addis Ababa	-	-	-	*	*	*	*	*
Dire Dawa	254	24	*	*	*	*	*	*

TABLE 6.24.1: RURAL MEHER

Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	3543348	253774	3456519	240890	44681	3104	1156
Tigray	50395	1448	45652	1287	307	4	*
Afar	*	*	*	*	-	-	-
Amhara	548469	11262	533485	10720	5537	123	87
Oromia	1415784	109526	1358279	100124	23993	2146	609
Somali	7740	1339	7281	1212	180	*	*
Benishangul-Gumuz	23126	632	22471	597	191	3	*
S.N.N.P.R	1480333	127524	1475419	125734	13263	613	391
Gambella	1637	76	1561	73	*	*	*
Harari	8966	1345	5757	557	1080	157	58
Addis Ababa	621	10	590	9	*	*	-
Dire Dawa	5443	509	5191	473	*	*	*

TABLE 6.24.1 CONTD.

Permanent Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	40666	3649	993	76032	6131	1828
Tigray	491	*	*	4597	145	131
Afar	-	-	-	-	-	-
Amhara	5219	63	97	11554	355	106
Oromia	25220	2636	653	48476	4620	1288
Somali	143	*	*	228	33	*
Benishangul-Gumuz	360	5	7	539	28	*
S.N.N.P.R	6552	509	93	8768	667	231
Gambella	42	*	*	-	-	-
Harari	2386	354	128	1787	276	64
Addis Ababa	-	-	-	*	*	*
Dire Dawa	254	24	*	*	*	*

TABLE 6.24.2: URBAN HOLDINGS

Permanent Crops			
Geographic Area	Application of	Type of Fertilizer Applied	
			Natural and Chemical

	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	37323	5433	34973	4536	2926	827	596	69
Tigray	270	57	193	34	68	*	21	*
Afar	3	*	3	*	-	-	-	-
Amhara	2141	342	2028	305	129	*	19	3
Oromia	13236	2020	11918	1420	1436	*	323	33
Somali	137	23	129	22	*	*	-	-
Benishangul-Gumuz	161	28	152	22	20	*	-	-
S.N.N.P.R	20937	2881	20245	2692	1200	174	162	14
Gambella	*	*	-	-	*	*	-	-
Harari	177	59	78	*	46	*	55	*
Addis Ababa	175	10	152	*	*	*	*	*
Dire Dawa	81	11	*	*	*	*	-	-

TABLE 6.25: NUMBER OF HOLDER APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Fruit Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	925893	11335	907128	10707	7216	172	181
Tigray	22621	861	21580	829	*	*	*
Afar	*	*	*	*	-	-	-
Amhara	99599	971	98601	924	*	*	*
Oromia	404809	5694	391834	5344	4516	102	121
Somali	1076	116	1000	71	*	*	-
Benishangul-Gumuz	18437	304	17866	271	69	1	*
S.N.N.P.R	370404	3009	369144	2960	1736	18	32
Gambella	798	8	735	7	*	*	*
Harari	4805	164	3232	102	483	15	15
Addis Ababa	46	*	42	*	-	-	-
Dire Dawa	2567	105	2364	97	*	*	*

TABLE 6.25 CONTD.

Fruit Crops								
Geographic Area	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
National	6268	120	122	12347	267	246	753	70
Tigray	172	*	*	845	15	19	62	*
Afar	-	-	-	-	-	-	-	-
Amhara	528	3	12	540	13	*	57	*
Oromia	3748	53	66	8776	183	187	332	12
Somali	*	*	-	-	-	-	*	*
Benishangul-Gumuz	267	3	6	483	26	*	8	*
S.N.N.P.R	460	*	*	1031	*	21	279	11
Gambella	*	*	*	-	-	-	-	-
Harari	928	32	27	628	15	14	*	-
Addis Ababa	-	-	-	*	*	-	-	-
Dire Dawa	*	*	*	*	*	*	*	*

TABLE 6.25.1: RURAL MEHER

Fruit Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	914952	10615	896699	10056	7216	172	181
Tigray	22421	834	21431	814	*	*	*

Afar	*	*	*	*	-	-	-
Amhara	98736	840	97788	822	*	*	*
Oromia	400689	5579	387941	5241	4516	102	121
Somali	1049	112	977	69	*	*	-
Benishangul-Gumuz	18335	295	17764	266	69	1	*
S.N.N.P.R	364893	2586	363803	2547	1736	18	32
Gambella	798	8	735	7	*	*	*
Harari	4783	163	3214	101	483	15	15
Addis Ababa	*	*	*	*	-	-	-
Dire Dawa	2486	94	2290	86	*	*	*

TABLE 6.25.1 CONTD.

Geographic Area	Fruit Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	6268	120	122	12347	267	246
Tigray	172	*	*	845	15	19
Afar	-	-	-	-	-	-
Amhara	528	3	12	540	13	*
Oromia	3748	53	66	8776	183	187
Somali	*	*	-	-	-	-
Benishangul-Gumuz	267	3	6	483	26	*
S.N.N.P.R	460	*	*	1031	*	21
Gambella	*	*	*	-	-	-
Harari	928	32	27	628	15	14
Addis Ababa	-	-	-	*	*	-
Dire Dawa	*	*	*	*	*	*

TABLE 6.25.1a: Avocado

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	128716	628	127557	615	569	5	11
Tigray	*	*	*	*	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	1902	4	1902	4	-	-	-
Oromia	18823	161	18300	154	*	*	*
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	328	*	328	*	-	-	-
S.N.N.P.R	107365	458	106843	453	382	*	*
Gambella	*	*	*	*	-	-	-
Harari	*	*	*	*	*	*	*
Addis Ababa	*	*	*	*	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.25.2a CONTD.

Avocado						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	351	*	5	387	6	*
Tigray	-	-	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	-	-	-	-	-	-

Oromia	121	*	*	275	5	*
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	*	*	*	*	*	*
Gambella	-	-	-	-	-	-
Harari	*	*	*	*	*	*
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.25.2b: Bananas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	545321	5398	538229	5215	2855	49	80
Tigray	2086	*	1987	*	-	-	-
Afar	*	*	*	*	-	-	-
Amhara	30205	202	30054	201	-	-	-
Oromia	268173	3214	262666	3078	1704	36	52
Somali	257	27	257	27	-	-	-
Benishangul-Gumuz	6916	92	6737	85	*	*	-
S.N.N.P.R	235791	1715	234864	1684	1129	13	28
Gambella	313	3	297	3	*	*	*
Harari	687	*	474	2	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	318	3	318	3	-	-	-

TABLE 6.25.2b CONTD.

Bananas						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1766	25	22	5198	108	101
Tigray	*	*	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	*	*	*	*	*	*
Oromia	1249	15	17	3885	85	75
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	176	7	*
S.N.N.P.R	*	*	*	859	*	21
Gambella	-	-	-	-	-	-
Harari	*	*	*	*	*	*
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.25.2c: Guava

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	55695	416	52619	339	525	25	7
Tigray	1463	15	1177	11	*	*	-
Afar	*	*	*	*	-	-	-
Amhara	15589	96	15589	96	-	-	-
Oromia	25604	210	23559	171	361	12	4
Somali	164	*	139	*	*	*	-
Benishangul-Gumuz	1080	5	1080	5	-	-	-
S.N.N.P.R	10053	22	10053	22	-	-	-
Gambella	*	*	*	*	-	-	-
Harari	1364	39	645	22	125	1	*

Addis Ababa	-	-	-	-
Dire Dawa	358	*	358	*

TABLE 6.25.2c CONTD.

Guava						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1320	32	19	1416	21	15
Tigray	*	*	*	*	*	*
Afar	-	-	-	-	-	-
Amhara	-	-	-	-	-	-
Oromia	755	11	10	1056	17	*
Somali	*	*	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	-	-	-	-	-	-
Gambella	-	-	-	-	-	-
Harari	441	13	9	154	*	*
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.25.2d: Lemons

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	40810	192	39917	176	199	*	*
Tigray	3040	23	2732	15	*	*	*
Afar	*	*	*	*	-	-	-
Amhara	16512	68	16311	66	*	*	-
Oromia	11735	60	11468	56	*	*	*
Somali	223	11	223	11	-	-	-
Benishangul-Gumuz	1006	8	970	8	-	-	-
S.N.N.P.R	7942	17	7942	17	-	-	-
Gambella	*	*	*	*	-	-	-
Harari	189	1	108	*	*	*	*
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	*	*	*	*	-	-	-

TABLE 6.25.2d CONTD.

Lemons						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	191	*	5	521	14	*
Tigray	*	*	*	245	*	*
Afar	-	-	-	-	-	-
Amhara	*	*	*	*	*	-
Oromia	*	*	*	*	*	-
Somali	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	*	*	-
S.N.N.P.R	-	-	-	-	-	-
Gambella	-	-	-	-	-	-
Harari	*	*	*	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.25.2e: Mangoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	102404	1110	98110	996	1560	31	37
Tigray	201	1	167	*	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	2758	12	2672	11	*	*	*
Oromia	65253	798	62161	733	1240	18	27
Somali	291	6	291	6	-	-	-
Benishangul-Gumuz	9227	124	8765	105	41	1	*
S.N.N.P.R	22249	73	22249	73	-	-	-
Gambella	300	2	282	2	*	*	*
Harari	1928	89	1327	60	184	*	*
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	196	*	196	*	-	-	-

TABLE 6.25.2e CONTD.

Mangoes						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	971	25	12	2268	58	35
Tigray	-	-	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	-	-	-	-	-	-
Oromia	570	14	5	1635	33	31
Somali	-	-	-	-	-	-
Benishangul-Gumuz	164	1	3	352	17	-
S.N.N.P.R	-	-	-	-	-	-
Gambella	*	*	*	-	-	-
Harari	228	*	*	247	8	*
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.25.2f: Oranges

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	130271	828	128437	800	499	13	9
Tigray	1538	10	1391	9	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	31019	269	30919	268	-	-	-
Oromia	50549	371	49174	349	474	10	9
Somali	260	19	234	14	*	*	-
Benishangul-Gumuz	1417	9	1384	8	-	-	-
S.N.N.P.R	45261	149	45148	149	-	-	-
Gambella	*	*	*	*	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	*	*	*	*	-	-	-
Dire Dawa	*	*	*	*	-	-	-

TABLE 6.25.2f CONTD.

Oranges						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	433	*	6	1063	12	13
Tigray	*	*	-	122	*	*
Afar	-	-	-	-	-	-
Amhara	*	*	*	*	*	*
Oromia	170	*	*	733	11	*
Somali	*	*	-	-	-	-
Benishangul-Gumuz	*	*	*	*	*	-
S.N.N.P.R	*	*	*	*	*	*
Gambella	-	-	-	-	-	-
Harari	*	*	*	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.25.2g: Papayas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	151046	792	147829	734	891	*	15
Tigray	2022	*	1930	*	-	-	-
Afar	66	*	66	*	-	-	-
Amhara	23958	109	23698	106	-	-	-
Oromia	65076	432	63055	405	591	9	10
Somali	348	*	322	3	*	*	-
Benishangul-Gumuz	7641	52	7537	51	*	*	*
S.N.N.P.R	48569	99	48414	99	*	*	*
Gambella	449	2	412	2	*	*	*
Harari	1335	15	948	12	*	*	*
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	1582	37	1446	34	*	*	*

TABLE 6.23.2g CONTD.

Papayas						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1194	18	17	1444	16	26
Tigray	-	-	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	*	*	*	*	*	*
Oromia	647	6	6	1016	11	22
Somali	*	*	-	-	-	-
Benishangul-Gumuz	*	*	*	84	*	-
S.N.N.P.R	-	-	-	*	*	-
Gambella	*	*	-	-	-	-
Harari	244	1	5	*	*	*
Addis Ababa	-	-	-	-	-	-
Dire Dawa	*	*	*	-	-	-

TABLE 6.25.2h: Pineapples

Geographic Area	Total Fertilized Cropland	Type of Fertilizer Applied	
		Natural	Dap

	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	2233	8	2233	8	-	-	-
Tigray	-	-	-	-	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	*	*	*	*	-	-	-
Oromia	1386	4	1386	4	-	-	-
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	-	-	-
S.N.N.P.R	779	*	779	*	-	-	-
Gambella	*	*	*	*	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.25.2i: Other Fruit Crops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	92895	1241	89256	1173	863	24	18
Tigray	15657	719	15438	713	*	*	-
Afar	*	*	*	*	-	-	-
Amhara	15453	79	15172	70	*	*	*
Oromia	41673	330	39222	292	405	*	12
Somali	144	*	98	2	*	*	-
Benishangul-Gumuz	264	2	233	2	*	*	-
S.N.N.P.R	17856	47	17653	46	*	*	*
Gambella	*	*	*	*	-	-	-
Harari	851	10	568	4	*	*	*
Addis Ababa	*	*	-	-	-	-	-
Dire Dawa	935	*	814	*	*	*	*

TABLE 6.25.2i CONTD.

Other Fruit Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1081	12	35	2104	33	46
Tigray	*	*	*	179	*	*
Afar	-	-	-	-	-	-
Amhara	*	*	*	*	*	-
Oromia	661	4	23	1624	17	39
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	*	-
S.N.N.P.R	*	*	-	-	-	-
Gambella	-	-	-	-	-	-
Harari	*	*	*	136	*	*
Addis Ababa	-	-	-	*	*	-
Dire Dawa	*	*	*	*	*	*

TABLE 6.25.2: URBAN HOLDINGS

Fruit Crops							
Geographic Area	Application of		Type of Fertilizer Applied				
							Natural and Chemical
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder Hectare
National	10941	720	10429	651	622	60	131 10
Tigray	200	27	149	14	43	*	19 *

Afar	1	*	1	*	-	-	-	-
Amhara	863	*	813	*	42	*	15	2
Oromia	4120	115	3893	103	284	9	48	2
Somali	26	4	23	2	*	*	-	-
Benishangul-	102	9	102	5	8	*	-	-
S.N.N.P.R	5511	423	5341	412	231	8	48	3
Gambella	-	-	-	-	-	-	-	-
Harari	22	*	18	*	*	-	*	-
Addis Ababa	15	*	15	*	-	-	-	-
Dire Dawa	81	11	*	*	*	*	-	-

TABLE 6.26: NUMBER OF HOLDER APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

STIMULANT CROPS							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1950802	92743	1863112	81033	34362	2589	827
Tigray	33388	613	29180	474	*	*	*
Afar	29	*	29	*	-	-	-
Amhara	508343	10060	496730	9591	3485	87	67
Oromia	887616	60003	829449	50929	19445	1897	406
Somali	7156	1246	6718	1163	155	23	*
Benishangul-Gumuz	13179	326	13061	318	*	*	*
S.N.N.P.R	487501	18820	478332	17674	9989	432	304
Gambella	324	10	304	*	-	-	-
Harari	8197	1237	4474	478	1011	142	42
Addis Ababa	570	11	542	11	-	-	-
Dire Dawa	4500	415	4293	388	*	*	*

TABLE 6.26 CONTD.

Stimulant Crops								
Geographic Area	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
National	31347	3117	790	65039	5578	1423	1969	427
Tigray	382	*	*	4064	120	108	57	*
Afar	-	-	-	-	-	-	-	-
Amhara	2758	48	58	9712	329	81	104	6
Oromia	22813	2540	572	42767	4373	1035	1006	263
Somali	*	*	*	228	33	*	*	*
Benishangul-Gumuz	*	*	*	127	*	*	*	*
S.N.N.P.R	2760	150	52	6374	455	142	670	110
Gambella	*	*	-	-	-	-	*	*
Harari	2251	321	100	1689	261	50	98	*
Addis Ababa	-	-	-	*	*	*	*	*
Dire Dawa	165	*	*	*	*	*	-	-

TABLE 6.26.1: RURAL MEHER

Stimulant Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1932130	90475	1846161	79192	34362	2589	827
Tigray	33229	584	29077	454	*	*	*
Afar	29	*	29	*	-	-	-
Amhara	506553	9855	495022	9392	3485	87	67

Oromia	879720	58839	822447	50029	19445	1897	406
Somali	7051	1227	6617	1143	155	23	*
Benishangul-Gumuz	13102	307	12995	302	*	*	*
S.N.N.P.R	479114	18051	470505	17015	9989	432	304
Gambella	318	10	304	*	-	-	-
Harari	8035	1179	4408	455	1011	142	42
Addis Ababa	481	7	464	7	-	-	-
Dire Dawa	4500	415	4293	388	*	*	*

TABLE 6.26.1 CONTD.

Stimulant Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	31347	3117	790	65039	5578	1423
Tigray	382	*	*	4064	120	108
Afar	-	-	-	-	-	-
Amhara	2758	48	58	9712	329	81
Oromia	22813	2540	572	42767	4373	1035
Somali	*	*	*	228	33	*
Benishangul-Gumuz	*	*	*	127	*	*
S.N.N.P.R	2760	150	52	6374	455	142
Gambella	*	*	-	-	-	-
Harari	2251	321	100	1689	261	50
Addis Ababa	-	-	-	*	*	*
Dire Dawa	165	*	*	*	*	*

TABLE 6.26.1a: Chat

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	716348	40591	661093	32913	14998	1347	304
Tigray	1181	*	1089	*	-	-	-
Afar	*	*	*	*	-	-	-
Amhara	60323	1276	59934	1267	*	*	-
Oromia	467535	30793	420296	24131	11321	1082	215
Somali	7014	1225	6580	1142	155	23	*
Benishangul-Gumuz	4030	37	3977	36	*	*	*
S.N.N.P.R	164556	5685	161285	5504	2432	96	47
Gambella	*	*	*	*	-	-	-
Harari	7787	1154	4194	441	950	141	40
Addis Ababa	59	1	59	1	-	-	-
Dire Dawa	3769	382	3584	359	*	*	*

TABLE 6.26.1a CONTD.

Chat						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	23350	2603	624	37015	3728	856
Tigray	*	*	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	234	*	*	*	*	-
Oromia	19665	2187	504	33423	3393	770
Somali	*	*	*	228	33	*
Benishangul-Gumuz	*	*	*	*	*	-

S.N.N.P.R	989	51	18	1390	34	32
Gambella	-	-	-	-	-	-
Harari	2158	312	93	1658	260	49
Addis Ababa	-	-	-	-	-	-
Dire Dawa	140	*	*	*	*	*

TABLE 6.26.1b: Coffee

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	834485	40831	806678	37903	16418	1095	408
Tigray	1439	23	1251	21	-	-	-
Afar	*	*	*	*	-	-	-
Amhara	132197	3021	130422	2982	403	*	9
Oromia	347627	25375	330470	23346	7755	754	153
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	9855	239	9735	235	*	*	*
S.N.N.P.R	340722	12107	332623	11270	8083	323	242
Gambella	214	10	201	*	-	-	-
Harari	877	22	531	13	*	*	*
Addis Ababa	47	*	47	*	-	-	-
Dire Dawa	1460	33	1351	28	*	*	*

TABLE 6.26.1b CONTD.

Coffee						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	6577	466	122	17243	1368	343
Tigray	*	*	-	162	*	*
Afar	-	-	-	-	-	-
Amhara	684	9	20	1060	16	17
Oromia	3756	347	64	10689	929	224
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	107	*	*
S.N.N.P.R	1781	97	32	5119	416	95
Gambella	*	*	-	-	-	-
Harari	*	*	*	84	*	*
Addis Ababa	-	-	-	-	-	-
Dire Dawa	*	*	*	*	*	*

TABLE 6.26.1c: Hops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	781521	9038	761393	8361	6764	147	115
Tigray	31929	523	27838	402	*	*	*
Afar	24	*	24	*	-	-	-
Amhara	427511	5558	416775	5144	3253	71	59
Oromia	259431	2669	255170	2550	2425	61	38
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	4904	31	4881	31	*	*	*
S.N.N.P.R	57198	246	56217	227	913	13	15
Gambella	*	*	*	*	-	-	-
Harari	*	*	-	-	-	-	-

Addis Ababa	466	7	449	7	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.26.1c CONTD.

Hops							
Geographic Area	Type of Fertilizer Applied						
	UREA			DAP & UREA			
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	
National	3009	47	44	16103	483	224	
Tigray	333	2	*	4002	117	103	
Afar	-	-	-	-	-	-	
Amhara	2108	34	35	8882	308	65	
Oromia	389	6	4	2598	52	42	
Somali	-	-	-	-	-	-	
Benishangul-Gumuz	-	-	-	-	-	-	
S.N.N.P.R	*	*	*	605	5	*	
Gambella	-	-	-	-	-	-	
Harari	*	*	*	-	-	-	
Addis Ababa	-	-	-	*	*	*	
Dire Dawa	-	-	-	-	-	-	

TABLE 6.26.1d: Other Stimulant Crops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	209	*	209	*	-	-	-
Tigray	-	-	-	-	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	-	-	-	-	-	-	-
Oromia	*	*	*	*	-	-	-
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	-	-	-
S.N.N.P.R	*	*	*	*	-	-	-
Gambella	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.26.2: URBAN HOLDINGS

Stimulant Crops								
Geographic Area	Application of		Type of Fertilizer Applied					
							Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	18672	2268	16951	1841	1519	378	457	49
Tigray	159	30	102	20	46	1	10	*
Afar	-	-	-	-	-	-	-	-
Amhara	1790	205	1708	199	92	5	*	*
Oromia	7896	1163	7002	900	733	233	278	30
Somali	105	20	101	19	*	*	-	-
Benishangul-	77	19	66	16	*	*	-	-
S.N.N.P.R	8388	769	7828	659	582	104	90	5
Gambella	*	*	-	-	*	*	-	-
Harari	162	58	66	*	43	*	55	*
Addis Ababa	89	*	78	*	-	-	*	*
Dire Dawa	-	-	-	-	-	-	-	-

Other Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	2145329	155129	2128562	153686	9576	344	14
Tigray	2132	30	1836	19	*	*	
Afar	126	2	126	2	-	-	
Amhara	62989	574	57610	511	2007	*	
Oromia	759542	45849	753114	45271	3653	146	8
Somali	41	*	41	*	-	-	
Benishangul-Gumuz	2265	30	2162	29	61	*	
S.N.N.P.R	1316887	108576	1312409	107793	3778	163	5
Gambella	939	58	939	58	-	-	
Harari	*	*	*	*	-	-	
Addis Ababa	309	8	288	3	*	*	
Dire Dawa	-	-	-	-	-	-	

Other Permanent Crops								
Geographic Area	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
National	7919	413	81	7775	286	159	1265	400
Tigray	-	-	-	228	*	*	-	-
Afar	-	-	-	-	-	-	-	-
Amhara	2447	13	27	1747	14	21	11	*
Oromia	1598	42	14	3395	64	66	576	*
Somali	-	-	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	-	-	-	-	-
S.N.N.P.R	3715	355	37	2390	197	69	667	69
Gambella	-	-	-	-	-	-	-	-
Harari	*	*	*	*	*	-	-	-
Addis Ababa	-	-	-	-	-	-	*	*
Dire Dawa	-	-	-	-	-	-	-	-

Other Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	2119186	152684	2103507	151642	9576	344	148
Tigray	2132	30	1836	19	*	*	-
Afar	123	2	123	2	-	-	-
Amhara	62879	567	57512	505	2007	*	*
Oromia	752326	45107	746432	44854	3653	146	83
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	2263	30	2160	29	61	*	*
S.N.N.P.R	1298173	106887	1294227	106172	3778	163	55
Gambella	939	58	939	58	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	216	1	208	1	*	*	-
Dire Dawa	-	-	-	-	-	-	-

Other Permanent Crops	
10	10
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97	97
98	98
99	99
100	100

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	7919	413	81	7775	286	159
Tigray	-	-	-	228	*	*
Afar	-	-	-	-	-	-
Amhara	2447	13	27	1747	14	21
Oromia	1598	42	14	3395	64	66
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	-	-	-
S.N.N.P.R	3715	355	37	2390	197	69
Gambella	-	-	-	-	-	-
Harari	*	*	*	*	*	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.27.1a: Enset

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	1978865	148906	1973567	148559	4592	167	87
Tigray	*	*	*	*	-	-	-
Afar	-	-	-	-	-	-	-
Amhara	935	8	935	8	-	-	-
Oromia	705739	43786	702302	43631	2629	88	63
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	163	2	137	2	18	*	-
S.N.N.P.R	1271064	105052	1269245	104861	1946	79	24
Gambella	805	56	805	56	-	-	-
Harari	*	*	-	-	-	-	-
Addis Ababa	124	*	124	*	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.27.1a CONTD.

Enset						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	1358	75	25	3218	105	71
Tigray	-	-	-	-	-	-
Afar	-	-	-	-	-	-
Amhara	-	-	-	-	-	-
Oromia	-	-	-	-	-	-
Somali	646	26	6	2053	41	44
Benishangul-Gumuz	-	-	-	-	-	-
S.N.N.P.R	*	*	*	-	-	-
Gambella	687	*	19	1165	64	*
Harari	-	-	-	-	-	-
Addis Ababa	*	*	*	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.27.1b: Suger Cane

Geographic Area	Total Fertilized Cropland	Type of Fertilizer Applied	
		Natural	Dap

	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	205213	3385	197683	2785	2360	129	42
Tigray	*	*	*	*	-	-	-
Afar	123	2	123	2	-	-	-
Amhara	22348	390	21901	382	*	*	*
Oromia	72428	1171	70541	1097	907	51	18
Somali	*	*	*	*	-	-	-
Benishangul-Gumuz	1630	24	1630	24	-	-	-
S.N.N.P.R	108173	1794	103012	1277	1434	78	23
Gambella	355	2	355	2	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	*	*	*	*	-	-	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.27.1b CONTD.

Suger Cane						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	3381	320	25	2436	151	57
Tigray	-	-	-	*	*	*
Afar	-	-	-	-	-	-
Amhara	254	*	*	*	*	*
Oromia	262	8	*	920	15	12
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	-	-	-
S.N.N.P.R	2822	*	19	1306	*	41
Gambella	-	-	-	-	-	-
Harari	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.27.1c: Other of Other Permanent Crops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
National	82880	394	75439	298	2872	48	20
Tigray	2035	29	1772	18	*	*	-
Afar	-	-	-	-	-	-	-
Amhara	40777	169	35619	116	1988	*	*
Oromia	26559	150	25247	126	303	*	*
Somali	-	-	-	-	-	-	-
Benishangul-Gumuz	489	3	412	3	*	*	*
S.N.N.P.R	12765	40	12190	35	459	*	*
Gambella	118	*	118	*	-	-	-
Harari	*	*	*	*	-	-	-
Addis Ababa	74	*	66	*	*	*	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.27.1c CONTD.

Other of Other Permanent Crops	
Geographic	Type of Fertilizer Applied

Area	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
National	3180	17	32	2216	30	31
Tigray	-	-	-	194	*	*
Afar	-	-	-	-	-	-
Amhara	2193	8	25	1572	11	18
Oromia	690	8	*	435	*	10
Somali	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	-	-	-
S.N.N.P.R	206	*	-	-	-	-
Gambella	-	-	-	-	-	-
Harari	*	*	*	*	*	-
Addis Ababa	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-

TABLE 6.27.2: URBAN HOLDINGS

Geographic Area	Other Permanent Crops							
	Application of		Type of Fertilizer Applied					
							Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	26143	2445	25054	2045	1154	390	113	10
Tigray	-	-	-	-	-	-	-	-
Afar	3	*	3	*	-	-	-	-
Amhara	109	7	98	5	11	*	-	-
Oromia	7216	742	6682	416	550	*	26	*
Somali	5	-	5	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	-	-	-	-
S.N.N.P.R	18714	1689	18182	1621	586	62	83	6
Gambella	-	-	-	-	-	-	-	-
Harari	*	*	*	*	-	-	-	-
Addis Ababa	92	6	81	2	*	*	*	*
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.28: 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
National	915515	92234	769311	92234	738071	89818	32624	3402
Tigray	35659	6329	30156	6329	28783	6233	3966	430
Afar	987	*	*	*	*	*	*	*
Amhara	280116	25537	257199	25537	246407	24737	14264	1396
Oromia	463998	52754	397274	52754	386786	51584	7537	898
Somali	2506	384	2141	384	2055	372	-	-
Benishangul-Gumuz	15101	858	7852	858	7133	705	*	*
S.N.N.P.R	113198	5899	71380	5899	64155	5736	6532	603
Gambella	1661	58	662	58	602	57	-	-
Harari	812	45	733	45	658	44	-	-
Addis Ababa	674	269	546	269	526	262	278	61
Dire Dawa	803	12	586	12	470	12	-	-

TABLE 6.28 CONTD.1

Geographic Area	Barley		Wheat		Maize		Sorghum	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
National	22617	2627	71717	29705	622213	53309	24555	388
Tigray	6031	485	18829	4981	4033	179	2860	64
Afar	-	-	-	-	*	*	19	*
Amhara	7928	383	16963	5155	213122	17546	7030	56
Oromia	5312	1559	29568	17702	346746	31197	8387	189
Somali	*	*	423	*	1264	95	867	16

Benishangul-Gumuz	*	*	*	*	6345	631	678	8
S.N.N.P.R	3139	199	5555	1383	49158	3518	3971	33
Gambella	-	-	-	-	481	41	180	9
Harari	-	-	*	*	461	21	190	*
Addis Ababa	*	*	288	201	-	-	-	-
Dire Dawa	-	-	-	-	*	*	373	9

TABLE 6.28 CONTD.2

Geographic Area	Millet		Oats		Rice		Pulses	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
National	4538	204	856	31	765	153	39851	2201
Tigray	1448	93	-	-	-	-	1907	92
Afar	-	-	-	-	-	-	*	*
Amhara	1776	81	305	*	628	108	14649	739
Oromia	845	21	417	*	*	*	13367	1051
Somali	-	-	*	-	-	-	213	*
Benishangul-Gumuz	401	*	-	-	92	37	859	151
S.N.N.P.R	*	-	*	*	-	-	8564	147
Gambella	*	-	-	-	*	*	50	*
Harari	*	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	35	*
Dire Dawa	-	-	-	-	-	-	196	*

TABLE 6.28 CONTD.3

Geographic Area	Horse/Faba beans		Field peas		Haricot beans		Chick peas	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
National	13742	669	6582	279	14789	596	4288	252
Tigray	1065	66	202	*	298	*	172	*
Afar	-	-	-	-	*	*	-	-
Amhara	7223	335	3315	137	1311	38	3186	149
Oromia	3591	220	2084	106	6483	481	721	73
Somali	-	-	*	*	209	*	*	*
Benishangul-Gumuz	*	*	*	-	577	*	*	*
S.N.N.P.R	1823	47	936	34	5653	58	173	*
Gambella	-	-	-	-	50	*	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	*	*	*	*	-	-	*	*
Dire Dawa	-	-	-	-	196	*	-	-

TABLE 6.28 CONTD.4

Geographic Area	Lentils		Vetch/Grass peas		Soya beans		Fenugreek	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
National	1794	170	2019	79	388	145	1047	*
Tigray	166	*	*	-	*	-	*	-
Afar	-	-	-	-	-	-	-	-
Amhara	855	23	1316	48	-	-	258	*
Oromia	663	141	590	30	*	-	608	*
Somali	*	*	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	215	145	-	-
S.N.N.P.R	*	*	*	*	*	*	*	*
Gambella	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.28 CONTD.5

Geographic Area	Oil Seeds		Neug		Linseed		Groundnuts	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
National	18895	197	2395	28	2281	83	1041	*
Tigray	714	*	217	*	205	*	-	-
Afar	*	*	-	-	-	-	*	*
Amhara	11641	*	1457	*	866	*	*	*
Oromia	4432	117	579	17	1030	76	329	*
Somali	*	-	-	-	-	-	*	-
Benishangul-Gumuz	689	*	68	*	-	-	112	*
S.N.N.P.R	1055	*	*	*	180	*	*	*
Gambella	*	*	-	-	-	-	*	*
Harari	148	*	-	-	-	-	148	*
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.28 CONTD.6

Geographic Area	Sufflower		Sesame		Rapeseed		Other Grains	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
National	3737	*	1900	*	8354	*	3068	*
Tigray	*	-	*	*	*	*	252	-
Afar	*	-	*	*	-	-	246	*
Amhara	2773	*	977	3	5687	*	775	*
Oromia	495	-	253	-	1920	*	640	*
Somali	-	-	-	-	-	-	-	-
Benishangul-Gumuz	*	-	448	1	*	*	*	-
S.N.N.P.R	*	*	*	-	615	*	*	*
Gambella	-	-	-	-	*	*	*	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.28 CONTD.7

Geographic Area	Number of Holders who used Improved Seeds						
	Vegetables	Lettuce	Head Cabbage	Kale	Tomatoes	Green Peppers	Red Peppers
National	15178	1103	4565	2663	1884	1341	2436
Tigray	2145	*	*	*	515	*	155
Afar	*	-	-	-	*	-	-
Amhara	2682	*	538	213	*	*	1045
Oromia	5459	207	1694	1101	698	472	911
Somali	*	-	*	-	*	-	-
Benishangul-Gumuz	118	-	*	*	-	*	*
S.N.N.P.R	4370	*	1657	1258	*	501	315
Gambella	*	-	-	-	*	-	-
Harari	*	-	*	-	-	-	-
Addis Ababa	46	*	34	*	-	-	-
Dire Dawa	*	-	-	-	*	-	-

TABLE 6.28 CONTD.7

Geographic Area	Number of Holders who used Improved Seeds						
	Swiss chard	Other Vegetables	Root Crops	Beet root	Carrot	Onions	Potatoes
National	3233	887	22570	6525	6005	4603	2851
Tigray	*	*	1941	*	*	370	598
Afar	-	-	161	-	-	*	-
Amhara	555	*	4564	1101	1304	1148	1140
Oromia	923	317	7018	2783	1749	1587	485
Somali	-	-	*	*	-	*	-
Benishangul-Gumuz	*	*	109	*	*	*	*
S.N.N.P.R	650	441	8547	2190	1783	1236	622
Gambella	-	-	-	*	-	-	-
Harari	-	-	-	-	-	-	-
Addis Ababa	*	*	125	*	113	*	-
Dire Dawa	-	-	-	-	-	-	-

TABLE 6.28 CONTD.9

Geographic Area	Number of Holders who used Improved Seeds							
	Garlic	Taro	Sweet Potatoes	Other root crops	Permanent crops	Fruit crops	Avocado	Bananas
National	1201	1134	4252	381	155709	34798	8701	6355
Tigray	165	-	*	-	3626	3303	209	145
Afar	-	-	-	*	*	*	-	*
Amhara	474	-	*	-	25654	9346	1227	1383
Oromia	298	634	545	*	80332	10738	3214	2996
Somali	-	-	*	-	315	315	-	*
Benishangul-Gumuz	18	-	-	*	7711	842	259	217
S.N.N.P.R	247	500	3533	*	36811	9842	3730	1525
Gambella	-	-	-	*	955	181	45	*
Harari	-	-	-	-	*	*	-	-
Addis Ababa	-	-	-	-	*	*	*	-
Dire Dawa	-	-	-	-	140	*	-	-

TABLE 6.28 CONTD.10

Geographic Area	Number of Holders who used Improved Seeds						
	Guavas (Zeytuna)	Lemons	Mangos	Oranges	Papayas	Pineapples	Other Fruits
National	4608	1016	4897	3523	11024	*	2630
Tigray	1289	358	*	390	1214	-	595
Afar	-	*	-	-	-	-	-
Amhara	1849	476	1041	1433	3553	*	606
Oromia	577	*	1000	924	3665	-	615
Somali	*	*	*	70	*	-	-
Benishangul-Gumuz	*	*	205	*	74	-	*
S.N.N.P.R	759	*	2336	670	2343	-	638
Gambella	*	-	*	*	30	-	-
Harari	-	-	-	-	*	-	*
Addis Ababa	-	-	-	*	-	-	-
Dire Dawa	-	*	-	-	*	-	*

TABLE 6.28 CONTD.11

Geographic Area	Number of Holders who used Improved Seeds		
	Stimulant crops	Coffee	Other Permanent Crops
National	125492	125492	7779
Tigray	319	319	179
Afar	*	*	*
Amhara	19293	19293	1192
Oromia	71347	71347	3002
Somali	-	-	-
Benishangul-Gumuz	7233	7233	*
S.N.N.P.R	26377	26377	3347
Gambella	828	828	*
Harari	*	*	-
Addis Ababa	*	*	*
Dire Dawa	*	*	-

TABLE 6.29: HOLDERS APPLYING AGRICULTURAL INPUTS AND PARTICIPATING IN EXTENSION PROGRAMS BY LEVEL OF EDUCATION IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

EDUCATIONAL ATTAINMENT			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.....	10534348	100.00	986003	9.36	1063381	10.09	7589474	72.05	1648216	15.65	581994	5.52
Illiterate.....	6805514	64.60	536577	7.88	652332	9.59	4755460	69.88	930302	13.67	331951	4.88
Literate, but no formal Education .....	1433366	13.61	164597	11.48	214588	14.97	1073992	74.93	218662	15.26	98955	6.9
Completed Grade 1..	199837	1.90	19188	9.6	14418	7.21	144668	72.39	39600	19.82	11878	5.94
Completed Grade 2..	355601	3.38	35714	10.04	30406	8.55	263778	74.18	68233	19.19	21762	6.12
Completed Grade 3..	375073	3.56	43538	11.61	32840	8.76	284541	75.86	75488	20.13	25332	6.75
Completed Grade 4..	309796	2.94	35581	11.49	26899	8.68	238082	76.85	67320	21.73	20392	6.58
Completed Grade 5..	265044	2.52	32299	12.19	23140	8.73	204344	77.1	56013	21.13	16610	6.27
Completed Grade 6..	269734	2.56	37524	13.91	23700	8.79	212229	78.68	60698	22.5	18057	6.69
Completed Grade 7..	161079	1.53	21982	13.65	13442	8.34	126758	78.69	38441	23.86	10934	6.79
Completed Grade 8..	150867	1.43	22899	15.18	12653	8.39	121624	80.62	40547	26.88	11471	7.6
Completed Grade 9..	66343	0.63	10652	16.06	5843	8.81	53791	81.08	16917	25.5	5142	7.75
Completed Grade 10	37456	0.36	6051	16.15	3596	9.6	29868	79.74	9508	25.38	2683	7.16
Completed Grade 11	17387	0.17	2602	14.97	1604	9.23	13396	77.05	4131	23.76	842	4.84
Completed Grade 12	70030	0.66	13166	18.8	6670	9.52	54403	77.69	18442	26.33	4349	6.21
Above Grade 12 .....	16278	0.15	3635	22.33	1250	7.68	11850	72.8	3832	23.54	1636	10.05
Not Reported .....	941	0.01	-	-	-	-	690	73.33	*	*	-	-

TABLE 6.29.1: RURAL HOLDINGS

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 .....	10329264	100.00	960110	9.3	1046212	10.13	7489163	72.5	1609972	15.59	581994	5.63
Illiterate .....	6720984	65.07	528966	7.87	645547	9.6	4718140	70.2	918123	13.66	331951	4.94
Literate, but no formal Education .....	1409944	13.65	161851	11.48	212299	15.06	1062978	75.39	214349	15.2	98955	7.02
Completed Grade 1 .....	197648	1.91	18947	9.59	14245	7.21	143611	72.66	39137	19.8	11878	6.01
Completed Grade 2 .....	349558	3.38	34916	9.99	29943	8.57	260869	74.63	66919	19.14	21762	6.23
Completed Grade 3 .....	365696	3.54	42345	11.58	32109	8.78	279753	76.5	73549	20.11	25332	6.93
Completed Grade 4 .....	300201	2.91	34257	11.41	26136	8.71	233145	77.66	65202	21.72	20392	6.79
Completed Grade 5 .....	253932	2.46	30581	12.04	22186	8.74	198480	78.16	53484	21.06	16610	6.54
Completed Grade 6 .....	259208	2.51	35766	13.8	22776	8.79	206541	79.68	58343	22.51	18057	6.97
Completed Grade 7 .....	151992	1.47	20726	13.64	12753	8.39	122022	80.28	36393	23.94	10934	7.19
Completed Grade 8 .....	141559	1.37	21322	15.06	11938	8.43	116448	82.26	38186	26.98	11471	8.1
Completed Grade 9 .....	60908	0.59	9841	16.16	5414	8.89	50761	83.34	15601	25.61	5142	8.44
Completed Grade 10 .....	34069	0.33	5402	15.86	3296	9.67	27941	82.01	8700	25.54	2683	7.88
Completed Grade 11 .....	15079	0.15	2242	14.87	1467	9.73	12140	80.51	3492	23.16	842	5.58
Completed Grade 12 .....	55549	0.54	10381	18.69	5338	9.61	46171	83.12	15261	27.47	4349	7.83
Above Grade 12 .....	11996	0.12	2568	21.41	765	6.38	9473	78.97	3151	26.27	1636	13.64
Not Reported .....	941	0.01	-	-	-	-	690	73.33	*	*	-	-

TABLE 6.29.2: 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	%		
ALL.....	10248724	100.00	915515	8.93	685026	6.68	7178609	70.04	1331744	12.99	553199	5.4
Illiterate .....	6662237	65.01	502751	7.55	427191	6.41	4513827	67.75	740637	11.12	313684	4.71
Literate, but no formal Education.....	1402391	13.68	156115	11.13	136420	9.73	1031605	73.56	193089	13.77	94963	6.77
Completed Grade 1 .	196173	1.91	17885	9.12	9564	4.88	136733	69.7	32684	16.66	11282	5.75
Completed Grade 2 .	347405	3.39	33481	9.64	19048	5.48	248271	71.46	55137	15.87	20722	5.96
Completed Grade 3 .	363443	3.55	40601	11.17	20823	5.73	269647	74.19	62160	17.1	24271	6.68
Completed Grade 4 .	298721	2.91	32300	10.81	17017	5.7	222465	74.47	53698	17.98	19344	6.48
Completed Grade 5 .	252473	2.46	29106	11.53	14430	5.72	190329	75.39	43750	17.33	16012	6.34
Completed Grade 6 .	257087	2.51	33773	13.14	14293	5.56	195358	75.99	48122	18.72	17301	6.73
Completed Grade 7 .	151227	1.48	19552	12.93	8311	5.5	117434	77.65	30882	20.42	10195	6.74
Completed Grade 8 .	140031	1.37	20453	14.61	7226	5.16	111234	79.44	32229	23.02	11157	7.97
Completed Grade 9 .	60692	0.59	9597	15.81	3430	5.65	48846	80.48	13196	21.74	4980	8.21
Completed Grade 10	33873	0.33	5316	15.69	2106	6.22	26847	79.26	7486	22.1	2606	7.69
Completed Grade 11	14858	0.14	2114	14.23	1056	7.11	11453	77.08	2962	19.94	810	5.45
Completed Grade 12	55250	0.54	9914	17.94	3536	6.4	44615	80.75	12844	23.25	4280	7.75
Above Grade 12 .....	11923	0.12	2558	21.45	574	4.81	9256	77.63	2836	23.79	1592	13.35
Not Reported .....	941	0.01	-	-	-	-	690	73.33	*	*	-	-

TABLE 6.29.3: RURAL BELG

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 .....	4640396	100.00	53599	1.16	547993	11.81	2498968	53.85	362003	7.8	37485	0.81
Illiterate .....	2892957	62.34	30784	1.06	333179	11.52	1531942	52.95	219156	7.58	23357	0.81
Literate, but no formal Education .....	594655	12.81	7161	1.2	115473	19.42	301655	50.73	32733	5.5	5645	0.95
Completed Grade 1..	95655	2.06	1174	1.23	7109	7.43	50594	52.89	8365	8.74	817	0.85
Completed Grade 2..	171242	3.69	1712	1	15436	9.01	90173	52.66	15308	8.94	1190	0.69
Completed Grade 3..	185545	4.00	2116	1.14	16961	9.14	103251	55.65	15818	8.53	1498	0.81
Completed Grade 4..	155238	3.35	2402	1.55	13929	8.97	90953	58.59	15315	9.87	1469	0.95
Completed Grade 5..	137502	2.96	1642	1.19	11685	8.5	78044	56.76	13027	9.47	719	0.52
Completed Grade 6..	145697	3.14	2407	1.65	12523	8.6	86357	59.27	14470	9.93	947	0.65
Completed Grade 7..	83872	1.81	1518	1.81	6398	7.63	51698	61.64	8301	9.9	903	1.08
Completed Grade 8..	82388	1.78	1244	1.51	6772	8.22	51841	62.92	9173	11.13	456	0.55
Completed Grade 9..	34530	0.74	473	1.37	3230	9.35	22357	64.75	3783	10.96	213	0.62
Completed Grade 10	19031	0.41	*	*	1789	9.4	11566	60.77	1874	9.85	*	*
Completed Grade 11	6885	0.15	184	2.67	557	8.09	4729	68.69	677	9.83	*	*
Completed Grade 12	29739	0.64	687	2.31	2762	9.29	20170	67.82	3424	11.51	*	*
Above Grade 12.....	5162	0.11	*	*	191	3.7	3434	66.52	533	10.33	*	*

Not Reported.....	298	0.01	-	-	-	-	204	68.46	*	*	-	-
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TABLE 6.29.4: URBAN HOLDINGS

[illegible]

TABLE 6.30: TOTAL NUMBER OF HOLDERS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	All Holding															
	Grades Completed by Holder															Above Grade 12
	All	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	
National	10534348	6805514	1433366	199837	355601	375073	309796	265044	269734	161079	150867	66343	37456	17387	70030	16278
Tigray	685551	484810	114539	11188	20705	19888	13246	7786	6295	3070	1759	869	532	263	396	204
Afar	11326	8832	1398	76	162	119	166	121	117	60	*	*	*	*	*	*
Amhara	3017665	2077026	638061	20326	46067	58779	47433	35790	34725	18571	16891	7886	4472	2016	7844	1708
Oromia	4080570	2516383	493736	98934	170493	172056	140710	119673	123095	74286	70691	32557	19541	8719	32820	6742
Somali	91300	66327	19784	257	691	622	869	769	384	381	430	198	136	12	367	74
Benishangul-Gumuz	127583	85851	11704	2854	5678	5098	4436	3600	3229	1928	1141	606	341	221	567	331
S.N.N.P.R	2444287	1515566	147950	64936	109844	115818	100229	94844	99376	61099	58349	23589	12025	5902	27168	6855
Gambella	31109	19173	1241	581	1069	1456	1518	1621	1403	1015	734	337	191	90	434	247
Harari	14220	9982	1866	269	225	354	515	297	301	200	113	*	*	*	25	*
Addis Ababa	15960	9697	1612	227	380	693	441	397	514	430	624	232	137	128	353	94
Dire Dawa	14778	11868	1476	188	287	191	233	145	294	*	*	-	*	*	-	-

TABLE 6.30.1: RURAL HOLDINGS

Geographic Area	All Holding															
	Grades Completed by Holder															Above Grade 12
	All	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	
National	10329264	6720984	1409944	197648	349558	365696	300201	253932	259208	151992	141559	60908	34069	15079	55549	11996
Tigray	672096	477445	112579	10989	20169	19090	12511	7256	5883	2779	1506	753	461	226	292	155
Afar	10731	8501	1276	72	155	92	146	107	96	49	*	*	*	*	*	*
Amhara	2985026	2061434	631407	20093	45382	57582	46204	34522	33592	17632	15953	7339	4081	1793	6627	1315
Oromia	3984617	2480746	483657	97920	167485	167369	135835	114050	117625	69626	65537	29543	17590	7427	25395	4681
Somali	88015	64464	19074	240	670	579	824	688	308	313	347	152	*	-	210	*
Benishangul-Gumuz	123740	84307	11218	2806	5562	4856	4295	3274	3068	1718	1066	474	307	196	336	255
S.N.N.P.R	2394920	1496382	145124	64326	108273	113594	97917	91864	96391	58487	55814	22088	11204	5279	22138	5302
Gambella	29497	18307	1184	565	1029	1435	1450	1574	1359	961	654	317	165	56	244	199
Harari	13408	9597	1782	267	213	321	487	234	248	140	*	*	*	-	-	-
Addis Ababa	13063	8393	1254	190	341	591	302	248	355	251	*	191	110	79	257	*
Dire Dawa	14150	11407	1390	182	278	187	233	115	283	*	*	-	*	-	-	-

TABLE 6.30.2: RURAL MEHER

Geographic Area	All Holding															
	All	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
National	10248724	6662237	1402391	196173	347405	363443	298721	252473	257087	151227	140031	60692	33873	14858	55250	11923
Tigray	671585	477067	112522	10959	20151	19090	12511	7256	5883	2751	1506	753	461	226	292	155
Afar	10497	8267	1276	72	155	92	146	107	96	49	*	*	*	*	*	*
Amhara	2973692	2054479	628960	19965	45142	57207	46051	34401	33129	17526	15684	7324	4081	1727	6627	1315
Oromia	3938167	2444569	480489	97028	166362	166112	135002	113347	116643	69297	65137	29439	17443	7272	25226	4669
Somali	83503	62041	17706	240	557	504	754	581	226	253	264	*	*	-	191	*
Benishangul-Gumuz	123726	84304	11218	2806	5562	4856	4295	3264	3068	1718	1066	474	307	196	336	255
S.N.N.P.R	2377971	1484069	144749	63908	107633	113070	97509	91383	95812	58252	55044	22026	11204	5279	22028	5270
Gambella	29188	18111	1180	556	1022	1413	1432	1551	1344	955	648	317	165	56	244	195
Harari	13273	9574	1669	267	213	321	487	234	248	140	*	*	*	-	-	-
Addis Ababa	13049	8393	1254	190	341	591	302	233	355	251	*	191	110	79	257	*
Dire Dawa	14073	11363	1368	182	265	187	233	115	283	*	*	-	*	-	-	-

TABLE 6.30.3: RURAL BELG

Geographic Area	All Holding															
	All	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
National	4640396	2892957	594655	95655	171242	185545	155238	137502	145697	83872	82388	34530	19031	6885	29739	5162
Tigray	82447	56448	15493	1058	2112	2177	1775	1171	1063	495	305	123	*	*	*	*
Afar	2002	1812	105	*	*	-	*	*	-	-	-	-	-	-	-	-
Amhara	1020984	652531	249092	5959	17249	22683	20960	14475	15498	8017	6779	3003	1570	591	2330	*
Oromia	1783405	1096025	225083	43681	75844	77636	59319	52024	55653	30694	31503	13246	8236	2459	10811	1191
Somali	16769	10642	4176	135	340	147	306	290	141	112	185	*	*	-	79	*
Benishangul-Gumuz	11268	6593	1605	288	627	574	428	393	349	160	170	*	*	-	-	-
S.N.N.P.R	1700712	1055372	97057	43990	74315	81273	71149	67899	72100	43786	43101	17809	8898	3787	16320	3607
Gambella	14474	7759	848	373	553	874	977	1041	705	524	309	167	88	16	171	*
Harari	3275	1928	665	*	*	108	155	133	*	*	*	*	*	-	-	-
Addis Ababa	323	128	46	-	*	*	*	*	*	*	-	*	-	-	*	-
Dire Dawa	4737	3720	487	*	151	*	*	*	*	-	*	-	-	-	-	-

TABLE 6.30.4: URBAN HOLDINGS

Geographic Area	All Holding															
	All	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
National	205084	84530	23422	2189	6043	9377	9594	11112	10526	9088	9308	5435	3387	2308	14482	4282
Tigray	13455	7365	1960	200	536	798	735	530	412	291	253	116	70	37	104	49
Afar	595	331	122	4	7	27	20	14	21	11	15	7	*	*	8	-
Amhara	32639	15592	6654	233	685	1196	1230	1268	1133	938	938	547	390	223	1217	394
Oromia	95953	35637	10079	1014	3009	4688	4876	5624	5470	4660	5154	3014	1951	1291	7425	2062
Somali	3285	1863	710	17	20	43	45	81	77	68	83	47	44	12	157	20
Benishangul-Gumuz	3843	1543	485	48	116	242	141	325	160	209	75	132	34	25	231	76
S.N.N.P.R	49366	19183	2825	610	1571	2224	2312	2980	2985	2612	2535	1501	821	623	5030	1553
Gambella	1611	866	58	17	39	21	68	48	44	53	80	20	26	34	190	48
Harari	811	386	85	*	12	32	28	63	53	61	25	10	17	*	25	*
Addis Ababa	2897	1304	358	37	39	103	139	150	159	178	146	41	27	49	97	70
Dire Dawa	628	461	86	*	*	*	-	30	11	*	*	-	*	*	-	-

TABLE 6.31: APPLICATION OF IMPROVED SEEDS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
	All	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
National	986003	536577	164597	19188	35714	43538	35581	32299	37524	21982	22899	10652	6051	2602	13166	3635
Tigray	41595	26466	8103	570	1270	1927	1025	872	678	312	179	*	15	*	55	20
Afar	1135	*	*	*	*	*	*	*	*	-	*	*	*	*	*	-
Amhara	291150	169442	80555	2370	5532	8237	5007	4584	5455	2848	2834	1182	570	287	1716	531
Oromia	493620	261377	62114	12365	22998	25567	21085	19516	22443	12182	13626	6711	3973	1357	6752	1555
Somali	2671	1447	977	-	*	*	52	*	-	*	*	-	*	2	*	-
Benishangul-Gumuz	15838	8077	2544	248	964	781	763	638	549	515	239	160	88	*	175	43
S.N.N.P.R	134905	66079	9958	3522	4785	6767	7264	6330	8036	5908	5796	2435	1353	823	4380	1470
Gambella	1849	860	*	87	*	120	182	150	108	101	80	*	*	*	26	*
Harari	923	626	98	*	*	*	*	10	*	*	*	*	-	-	6	-
Addis Ababa	1196	625	99	*	31	30	90	26	88	43	48	43	*	*	*	*
Dire Dawa	1122	835	*	-	*	*	*	*	*	*	-	-	*	*	-	-

TABLE 6.31.1: RURAL HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
	All	Illiterate	Literate but not Formal Education	Grades Completed by Holder												Above Grade 12
				Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	
National	960110	528966	161851	18947	34916	42345	34257	30581	35766	20726	21322	9841	5402	2242	10381	2568
Tigray	40206	25872	7884	552	1215	1834	963	765	599	272	*	*	-	*	*	-
Afar	1106	*	*	*	*	*	*	*	*	-	*	*	*	*	*	-
Amhara	286985	167939	79729	2341	5443	8076	4860	4387	5289	2643	2688	1091	510	254	1328	408
Oromia	479795	257602	60836	12231	22527	24880	20269	18563	21522	11489	12635	6246	3549	1164	5229	1053
Somali	2607	1406	970	-	*	*	52	*	-	-	*	-	*	-	-	-
Benishangul-Gumuz	15460	7952	2461	245	958	776	746	613	511	507	217	152	88	*	152	29
S.N.N.P.R	129563	64863	9699	3478	4619	6533	7016	5942	7557	5617	5451	2227	1208	721	3563	1068
Gambella	1763	825	87	*	*	120	172	142	104	101	76	*	*	*	*	*
Harari	840	598	86	-	*	-	*	-	*	*	-	-	-	-	-	-
Addis Ababa	729	371	48	-	*	30	71	*	34	35	27	40	*	-	*	-
Dire Dawa	1054	795	*	-	*	*	*	*	*	*	-	-	-	-	-	-

TABLE 6.31.2: RURAL MEHER

Geographic Area	Holders Applying Improved Seeds															
	All	Illiterate	Literate but not Formal Education	Grades Completed by Holder												Above Grade 12
				Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	
National	915515	502751	156115	17885	33481	40601	32300	29106	33773	19552	20453	9597	5316	2114	9914	2558
Tigray	35659	23208	6989	506	1075	1625	676	644	432	254	*	*	-	*	*	-
Afar	987	*	*	*	*	*	*	*	*	-	*	*	*	*	*	-
Amhara	280116	164001	77839	2321	5443	8012	4680	4269	4917	2553	2637	1007	510	254	1267	408
Oromia	463998	247550	58699	11960	22021	24147	19837	18080	20974	11307	12469	6134	3549	1143	5075	1053
Somali	2506	1375	916	-	*	*	52	*	-	-	*	-	*	-	-	-
Benishangul-Gumuz	15101	7784	2450	227	937	700	746	600	501	486	207	152	77	*	152	29
S.N.N.P.R	113198	55855	8950	2789	3891	5881	5968	5230	6714	4800	4808	2179	1139	614	3311	1068
Gambella	1661	810	70	*	*	120	168	142	98	69	76	*	-	*	*	-
Harari	812	598	86	-	*	-	*	-	*	*	-	-	-	-	-	-
Addis Ababa	674	351	48	-	*	*	65	*	34	*	27	40	*	-	*	-
Dire Dawa	803	584	*	-	*	*	*	*	*	*	-	-	-	-	-	-

TABLE 6.31.3: RURAL BELG

Geographic Area	Holders Applying Improved Seeds															
	All	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
National	53599	30784	7161	1174	1712	2116	2402	1642	2407	1518	1244	473	*	184	687	*
Tigray	6318	3823	1153	*	158	361	356	141	196	*	-	-	-	-	-	-
Afar	*	*	-	-	-	-	*	*	-	-	-	-	-	-	-	-
Amhara	8760	4785	2715	*	*	*	222	*	372	159	*	*	-	-	*	-
Oromia	18144	11120	2367	351	525	883	556	547	822	278	318	151	-	*	205	-
Somali	133	*	*	-	*	-	-	*	-	-	-	-	-	-	-	-
Benishangul-Gumuz	459	229	*	*	*	*	-	*	*	*	*	*	*	*	-	-
S.N.N.P.R	18952	10215	860	721	927	680	1246	783	935	930	865	181	*	*	376	-
Gambella	106	20	-	*	*	-	*	-	*	*	-	-	*	-	-	*
Harari	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Addis Ababa	72	26	-	-	*	*	*	-	*	*	-	*	-	-	-	-
Dire Dawa	*	*	-	-	*	*	-	-	*	-	-	-	-	-	-	-

TABLE 6.31.4: URBAN HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
	All	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
National	25893	7611	2746	240	799	1193	1324	1718	1758	1256	1577	811	648	361	2785	1067
Tigray	1388	595	219	18	55	92	63	107	79	39	46	22	15	4	14	20
Afar	28	*	*	-	-	*	-	2	10	-	-	-	-	*	-	-
Amhara	4164	1503	825	29	89	161	148	197	166	205	147	91	60	33	388	124
Oromia	13824	3775	1278	134	470	687	816	952	921	693	991	465	424	193	1524	502
Somali	64	41	7	-	-	-	-	*	-	*	-	-	-	2	*	-
Benishangul-Gumuz	378	125	83	*	*	*	*	25	38	*	22	*	-	*	*	15
S.N.N.P.R	5342	1216	258	43	166	235	248	389	479	291	344	207	145	102	817	401
Gambella	87	34	*	-	-	-	*	*	*	-	*	*	-	*	*	-
Harari	83	28	12	*	-	*	*	10	*	*	*	*	-	-	6	-
Addis Ababa	466	254	51	*	*	-	19	12	54	*	*	*	-	*	-	*
Dire Dawa	68	40	*	-	-	*	-	*	*	-	-	-	*	*	-	-

TABLE 6.32: USES OF IRRIGATION BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders Practicing Irrigation															
	Grades Completed by Holder															
	All	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
National	1063381	652332	214588	14418	30406	32840	26899	23140	23700	13442	12653	5843	3596	1604	6670	1250
Tigray	106602	71623	20936	1372	3188	3219	2225	1555	1237	614	298	112	119	*	38	34
Afar	8782	6679	1086	*	144	90	165	121	107	49	*	*	*	*	*	*
Amhara	475706	298937	122765	3048	7954	9827	7979	7398	6406	3442	3227	1805	601	515	1416	388
Oromia	381642	223012	59952	8256	15677	15679	12332	10336	11771	7090	7009	3204	2316	774	3750	484
Somali	8971	5878	1939	71	180	70	252	193	80	130	74	*	*	-	46	11
Benishangul-Gumuz	11115	5772	1905	174	685	527	569	505	407	212	150	107	*	*	52	*
S.N.N.P.R	61151	33776	4930	1319	2391	3235	3220	2831	3315	1754	1704	509	458	*	1240	286
Gambella	128	*	-	-	*	*	-	-	*	*	*	-	*	*	*	-
Harari	1721	1112	304	*	*	*	*	*	*	4	*	*	*	-	9	*
Addis Ababa	1193	519	106	14	*	*	64	59	60	97	47	*	*	45	55	*
Dire Dawa	6368	4979	664	*	*	*	*	115	216	*	*	-	*	*	-	-

TABLE 6.32.1: RURAL HOLDINGS

Geographic Area	Holders Practicing Irrigation															
	Grades Completed by Holder															
	All	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
National	1046212	645547	212299	14245	29943	32109	26136	22186	22776	12753	11938	5414	3296	1467	5338	765
Tigray	105055	70917	20686	1358	3107	3152	2119	1464	1171	573	261	*	*	*	-	*
Afar	8209	6362	968	*	137	63	146	107	86	*	*	*	*	*	*	*
Amhara	471502	297195	121966	3022	7875	9676	7829	7211	6244	3321	3056	1719	525	485	1125	*
Oromia	375148	220679	59194	8217	15505	15361	12023	9915	11401	6793	6690	2991	2163	716	3168	332
Somali	8551	5708	1868	60	180	*	235	175	*	*	74	*	*	-	*	-
Benishangul-Gumuz	10854	5667	1873	174	673	519	557	492	401	201	136	*	*	*	*	-
S.N.N.P.R	58676	33007	4795	1254	2291	3106	3100	2673	3121	1625	1591	427	426	*	948	144
Gambella	113	*	-	-	*	*	-	-	*	*	*	-	*	*	-	-
Harari	1602	1061	291	*	*	*	*	*	*	-	-	-	-	-	-	-
Addis Ababa	450	159	*	-	*	*	45	*	*	*	*	*	*	*	*	*
Dire Dawa	6051	4750	624	*	*	*	*	95	208	*	*	-	-	-	-	-

TABLE 6.32.2: RURAL MEHER

Geographic Area	Holders Practicing Irrigation															
	All	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
National	685026	427191	136420	9564	19048	20823	17017	14430	14293	8311	7226	3430	2106	1056	3536	574
Tigray	63431	42474	12689	761	2050	2056	1454	730	618	311	144	*	*	*	-	*
Afar	7902	6062	961	*	137	63	146	107	86	*	*	*	*	*	*	*
Amhara	276032	178283	70320	1670	4086	5271	3655	3753	2935	1800	1691	1111	198	285	792	*
Oromia	263271	157503	44534	5643	9893	9965	8207	6666	7238	4265	3720	1697	1378	505	1811	245
Somali	8290	5617	1770	60	150	*	235	175	*	*	74	*	*	-	*	-
Benishangul-Gumuz	6778	3223	1198	116	530	376	378	316	297	141	87	*	-	*	*	-
S.N.N.P.R	51940	28499	4205	1154	2032	2910	2832	2565	2791	1588	1386	427	426	*	845	113
Gambella	99	*	-	-	*	*	-	-	*	*	-	-	-	*	-	-
Harari	1377	949	179	*	*	*	*	*	*	-	-	-	-	-	-	-
Addis Ababa	275	95	*	-	*	*	*	*	-	*	*	*	*	*	*	*
Dire Dawa	5630	4445	546	*	*	*	*	95	*	*	*	-	-	-	-	-

TABLE 6.32.3: RURAL BELG

Geographic Area	Holders Practicing Irrigation															
	All	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
National	547993	333179	115473	7109	15436	16961	13929	11685	12523	6398	6772	3230	1789	557	2762	191
Tigray	64609	43970	12371	860	1689	1693	1419	936	816	462	188	*	*	-	-	-
Afar	1224	1084	66	-	-	-	*	*	-	-	-	-	-	-	-	-
Amhara	282190	172926	74442	2064	5204	6324	5421	4922	4420	1959	2125	968	417	316	608	*
Oromia	169991	97354	24996	3680	7229	7839	5414	4939	6070	3442	3925	1899	1067	242	1808	*
Somali	1808	1210	317	*	*	*	74	*	*	*	*	-	-	-	-	-
Benishangul-Gumuz	6411	3410	1196	114	402	283	272	257	231	97	87	*	*	-	-	-
S.N.N.P.R	18399	10617	1733	363	784	734	1200	529	883	390	410	224	*	-	336	*
Gambella	*	-	-	-	-	-	-	-	-	-	*	-	*	-	-	-
Harari	*	*	*	-	-	-	-	-	*	-	-	-	-	-	-	-
Addis Ababa	248	84	*	-	*	*	*	*	*	*	-	*	-	-	*	-
Dire Dawa	2763	2326	208	-	*	*	*	*	*	-	*	-	-	-	-	-

TABLE 6.32.4: URBAN HOLDINGS

Geographic Area	Holders Practicing Irrigation															
	All	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
National	17168	6785	2289	173	462	731	763	954	923	689	715	429	300	137	1332	485
Tigray	1548	706	250	14	82	68	106	92	66	41	37	18	9	3	38	18
Afar	573	317	118	4	7	27	19	14	21	8	15	7	*	*	8	-
Amhara	4203	1741	799	26	80	151	150	187	162	120	171	86	76	30	291	133
Oromia	6494	2333	758	39	172	318	309	420	370	298	319	213	153	57	581	152
Somali	420	170	71	11	-	24	17	18	40	15	-	*	*	-	33	11
Benishangul-Gumuz	261	105	32	-	12	8	12	*	*	*	14	9	-	-	*	*
S.N.N.P.R	2475	768	134	64	100	129	120	158	194	129	113	82	31	18	292	142
Gambella	*	*	-	-	-	-	-	-	-	-	*	-	-	-	*	-
Harari	119	51	*	*	*	6	*	9	*	4	*	*	*	-	9	*
Addis Ababa	743	360	74	14	-	-	*	*	55	57	40	*	*	18	41	*
Dire Dawa	318	228	40	-	*	-	-	21	8	*	-	-	*	*	-	-

TABLE 6.33: APPLICATION OF FERTILIZERS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders Applying Fertilizers															
	All	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
National	7589474	4755460	1073992	144668	263778	284541	238082	204344	212229	126758	121624	53791	29868	13396	54403	11850
Tigray	517709	357699	91194	9144	16755	16511	10350	6031	4652	2395	1249	639	444	184	312	150
Afar	2802	2193	335	*	*	29	*	*	12	*	*	*	*	*	*	-
Amhara	2051666	1352084	479147	13517	32143	42738	35733	26608	26349	13804	12073	5994	3131	1340	5761	1170
Oromia	2960487	1775637	370064	70556	124758	128262	106687	90840	97484	58597	58013	26222	15791	6534	26144	4889
Somali	17329	12026	4121	*	137	166	83	304	63	150	99	*	33	-	69	*
Benishangul-Gumuz	59029	36076	7248	1396	2760	2558	2330	2004	1677	1128	679	382	183	168	267	175
S.N.N.P.R	1943140	1194339	117911	49318	86332	93185	81696	77639	80919	50031	48877	20256	10105	5044	21518	5362
Gambella	3892	2317	109	115	169	154	236	227	164	97	96	30	*	*	79	*
Harari	11243	7783	1541	254	219	265	416	239	220	171	*	*	*	-	12	*
Addis Ababa	13858	8793	1404	222	*	574	366	327	463	341	440	176	77	111	225	44
Dire Dawa	8317	6514	918	*	163	*	106	100	227	*	*	-	*	*	-	-

TABLE 6.33.1: RURAL HOLDINGS

Geographic Area	Holders Applying Fertilizers															
	Grades Completed by Holder															
	All	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
National	7489163	4718140	1062978	143611	260869	279753	233145	198480	206541	122022	116448	50761	27941	12140	46171	9473
Tigray	511758	354892	90261	9055	16485	16056	9990	5727	4426	2243	1132	565	403	157	247	*
Afar	2733	2162	329	*	*	*	*	*	*	*	-	*	*	-	*	-
Amhara	2040230	1347509	476615	13427	31931	42295	35301	26085	25930	13404	11679	5752	2909	1242	5107	973
Oromia	2910980	1758982	364677	70080	123294	125803	104098	87859	94451	56147	55003	24498	14664	5824	21864	3724
Somali	16821	11824	4006	*	137	151	70	282	*	141	*	*	*	-	*	-
Benishangul-Gumuz	58032	35714	7126	1387	2746	2477	2297	1909	1637	1085	647	301	171	153	230	151
S.N.N.P.R	1914180	1183034	116307	48966	85406	91963	80324	75867	79180	48509	47403	19387	9628	4690	18455	4452
Gambella	3862	2303	109	115	169	154	230	227	164	97	96	30	*	*	68	*
Harari	10820	7606	1501	252	213	241	404	196	183	140	*	*	*	-	-	-
Addis Ababa	11563	7702	1140	185	*	493	243	213	323	215	333	148	59	68	156	*
Dire Dawa	8186	6412	907	*	163	*	106	*	227	*	*	-	*	-	-	-

TABLE 6.33.2: RURAL MEHER

Geographic Area	Holders Applying Fertilizers															
	Grades Completed by Holder															
	All	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
National	7178609	4513827	1031605	136733	248271	269647	222465	190329	195358	117434	111234	48846	26847	11453	44615	9256
Tigray	506110	350887	89377	9028	16273	15900	9922	5639	4351	2152	1088	565	403	157	247	*
Afar	2606	2051	314	*	*	*	*	*	*	*	-	*	*	-	*	-
Amhara	1968782	1298898	461567	12938	30470	40995	33790	25482	24625	12940	11438	5523	2882	1120	5090	950
Oromia	2816250	1692698	355011	68083	119519	123216	101177	85784	92019	55331	53893	24266	14456	5658	21415	3713
Somali	15582	11062	3691	*	*	151	51	259	*	*	*	*	*	-	*	-
Benishangul-Gumuz	57398	35243	7076	1378	2737	2448	2279	1884	1637	1085	625	301	171	153	230	151
S.N.N.P.R	1778995	1100051	111075	44644	78367	85948	74251	70559	71847	45331	43627	17967	8797	4291	17365	4269
Gambella	3431	2085	76	115	159	144	177	213	140	88	75	20	*	*	68	*
Harari	10711	7573	1477	228	213	241	388	196	170	140	*	*	*	-	-	-
Addis Ababa	11534	7702	1140	185	*	*	243	199	323	215	333	143	59	68	156	*
Dire Dawa	7209	5577	801	*	128	*	106	*	227	*	*	-	*	-	-	-

TABLE 6.33.3: RURAL BELG

Geographic Area	Holders Applying Fertilizers															
	All	Illiterate	Literate but not Formal Education	Grades Completed by Holder												
				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
National	2498968	1531942	301655	50594	90173	103251	90953	78044	86357	51698	51841	22357	11566	4729	20170	3434
Tigray	36530	24290	6663	532	1231	1158	1074	506	487	301	114	*	*	-	-	*
Afar	340	274	30	-	-	-	*	-	-	-	-	-	-	-	-	-
Amhara	483555	300971	125739	2791	7678	10437	10234	6376	7988	3665	3409	1643	575	445	1357	*
Oromia	822648	501369	104785	20020	33662	34938	29660	23602	27014	14732	15288	5948	4009	1069	6013	537
Somali	1697	963	483	*	*	*	*	*	-	*	-	*	-	-	-	-
Benishangul-Gumuz	5255	3156	734	159	252	287	178	151	127	*	117	*	-	-	-	-
S.N.N.P.R	1143461	697223	62421	26975	47158	56282	49527	47253	50614	32824	32870	14614	6863	3214	12784	2682
Gambella	599	311	*	*	*	*	*	*	*	*	*	*	*	-	*	-
Harari	1465	722	361	*	*	*	*	85	*	*	-	*	-	-	-	-
Addis Ababa	251	95	*	-	*	*	*	*	*	*	-	*	-	-	-	-
Dire Dawa	3168	2569	360	*	*	*	*	-	*	-	*	-	-	-	-	-

TABLE 6.33.4: URBAN HOLDINGS

Geographic Area	Holders Applying Fertilizers															
	All	Illiterate	Literate but not Formal Education	Grades Completed by Holder												
				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
National	100310	37320	11013	1057	2909	4787	4938	5864	5688	4736	5175	3031	1927	1256	8233	2376
Tigray	5951	2807	933	89	270	456	360	305	226	151	117	73	41	27	65	31
Afar	70	30	6	*	-	*	-	*	*	-	*	*	-	*	*	-
Amhara	11436	4575	2533	90	212	443	432	523	420	400	394	242	222	98	654	197
Oromia	49507	16655	5386	476	1464	2459	2589	2981	3033	2450	3010	1724	1127	710	4280	1166
Somali	508	202	115	-	-	15	13	21	47	9	17	*	22	-	37	*
Benishangul-Gumuz	997	363	122	*	14	*	32	*	40	43	32	*	*	*	37	24
S.N.N.P.R	28961	11305	1603	352	925	1222	1372	1773	1739	1523	1474	869	477	354	3064	910
Gambella	30	*	-	-	-	-	*	-	-	-	-	-	-	-	*	-
Harari	424	176	41	*	*	24	12	43	36	32	14	*	9	-	12	*
Addis Ababa	2295	1090	264	37	20	81	123	114	140	126	108	28	*	43	69	35
Dire Dawa	131	102	*	-	-	-	-	6	-	*	*	-	-	*	-	-

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

Geographic Area	Holders With Application of Pesticides															
	Grades Completed by Holder															
	All	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
National	1648216	930302	218662	39600	68233	75488	67320	56013	60698	38441	40547	16917	9508	4131	18442	3832
Tigray	37313	22751	7572	662	1488	1872	1359	500	624	306	88	15	*	-	*	*
Afar	970	563	170	-	*	*	*	*	*	-	*	*	-	*	*	-
Amhara	142995	84772	38386	1202	2946	3480	3385	2183	2022	1742	1328	487	254	*	719	45
Oromia	972993	533613	136054	25035	42510	45606	41061	33582	36990	22798	23432	10251	6014	2981	10996	2037
Somali	678	359	220	-	-	*	*	*	-	*	*	*	-	-	8	-
Benishangul-Gumuz	4302	2179	860	*	301	298	279	149	56	*	-	*	*	-	*	-
S.N.N.P.R	484834	283869	34933	12583	20864	24012	20977	19374	20753	13336	15585	6058	3205	1034	6515	1690
Gambella	959	431	108	-	*	65	62	50	*	*	23	*	*	*	*	*
Harari	828	481	132	*	*	*	*	*	*	*	*	*	-	-	-	*
Addis Ababa	1687	761	188	25	*	63	98	107	100	115	53	*	*	57	63	*
Dire Dawa	655	522	*	*	*	*	-	*	*	-	-	-	-	*	-	-

TABLE 6.34.1: RURAL HOLDINGS

Geographic Area	Holders With Application of Pesticides															
	Grades Completed by Holder															
	All	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
National	1609972	918123	214349	39137	66919	73549	65202	53484	58343	36393	38186	15601	8700	3492	15261	3151
Tigray	36156	22276	7344	656	1434	1777	1268	433	581	272	*	-	-	-	*	-
Afar	895	533	168	-	*	*	*	*	*	-	*	*	-	-	*	-
Amhara	140839	84009	37877	1188	2904	3405	3250	2087	1908	1655	1235	440	219	*	636	-
Oromia	947910	526252	133281	24738	41673	44268	39677	31956	35334	21418	21723	9272	5400	2516	8796	1575
Somali	588	333	189	-	-	-	-	*	-	*	-	*	-	-	-	-
Benishangul-Gumuz	4159	2113	835	*	289	287	277	145	*	*	-	*	*	-	-	-
S.N.N.P.R	476480	280913	34326	12456	20523	23654	20532	18716	20309	12885	15114	5794	3068	923	5679	1541
Gambella	869	403	105	-	*	64	56	48	*	*	*	*	*	-	*	*
Harari	767	468	128	*	*	*	*	*	*	-	-	-	-	-	-	-
Addis Ababa	717	336	74	*	*	*	51	58	30	33	*	*	-	*	45	-
Dire Dawa	592	489	*	-	*	*	-	-	*	-	-	-	-	-	-	-

TABLE 6.34.2: RURAL MEHER

Geographic Area	Holders With Application of Pesticides															
	All	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
National	1331744	740637	193089	32684	55137	62160	53698	43750	48122	30882	32229	13196	7486	2962	12844	2836
Tigray	33515	20395	6996	656	1365	1720	1029	433	560	272	*	-	-	-	*	-
Afar	859	510	155	-	*	*	*	*	*	-	*	*	-	-	*	-
Amhara	126836	75436	34679	1168	2652	3091	2541	1835	1781	1494	1170	395	*	*	410	-
Oromia	872321	479008	124282	23122	38264	41503	36878	29724	32847	19926	20485	8729	5109	2419	8430	1563
Somali	549	302	186	-	-	-	-	*	-	*	-	-	-	-	-	-
Benishangul-Gumuz	2801	1351	656	*	136	170	209	124	*	*	-	*	*	-	-	-
S.N.N.P.R	293006	162604	25909	7660	12629	15553	12878	11571	12812	9081	10485	4010	2205	489	3884	1237
Gambella	350	140	50	-	*	29	21	*	*	-	*	*	*	-	*	*
Harari	692	422	*	*	*	*	*	-	*	-	-	-	-	-	-	-
Addis Ababa	610	307	59	*	*	*	51	29	24	*	*	*	-	*	35	-
Dire Dawa	203	163	-	-	*	*	-	-	-	-	-	-	-	-	-	-

TABLE 6.34.3: RURAL BELG

Geographic Area	Holders With Application of Pesticides															
	All	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
National	362003	219156	32733	8365	15308	15818	15315	13027	14470	8301	9173	3783	1874	677	3424	533
Tigray	2794	1974	371	-	*	*	239	-	*	*	*	-	-	-	-	-
Afar	40	27	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Amhara	16536	9826	3986	*	303	459	*	363	153	234	87	*	*	-	*	-
Oromia	122211	70394	16777	2859	5782	5254	5107	3812	4504	2636	2412	1011	609	126	836	*
Somali	*	*	*	-	-	-	-	-	-	-	-	*	-	-	-	-
Benishangul-Gumuz	1457	783	221	*	172	117	*	*	*	*	-	-	-	-	-	-
S.N.N.P.R	217803	135443	11258	5425	8977	9897	9118	8746	9686	5341	6648	2688	1204	551	2333	440
Gambella	519	263	54	-	-	*	*	*	*	*	-	*	-	-	*	-
Harari	*	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-
Addis Ababa	141	*	*	-	*	-	*	*	*	*	-	*	-	-	*	-
Dire Dawa	389	326	*	-	-	-	-	-	*	-	-	-	-	-	-	-

TABLE 6.34.4: URBAN HOLDINGS

Geographic Area	Holders With Application of Pesticides															
	All	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
National	38244	12178	4314	463	1314	1939	2118	2529	2355	2048	2361	1316	807	639	3181	682
Tigray	1157	474	229	7	55	96	91	67	43	34	17	15	*	-	15	*
Afar	75	31	2	-	*	*	*	7	10	-	*	-	-	*	*	-
Amhara	2156	764	509	13	42	75	136	96	114	87	93	47	35	18	83	45
Oromia	25084	7362	2773	297	837	1338	1385	1626	1656	1380	1708	979	614	465	2200	462
Somali	90	26	31	-	-	*	*	*	-	*	*	*	-	-	8	-
Benishangul-Gumuz	144	66	24	-	12	12	*	*	*	4	-	-	*	-	*	-
S.N.N.P.R	8354	2956	607	127	341	358	445	658	443	450	472	264	136	110	836	149
Gambella	90	28	*	-	*	1	*	*	*	-	*	-	-	*	*	*
Harari	61	14	*	-	*	*	-	*	*	*	*	*	-	-	-	*
Addis Ababa	970	425	114	*	*	43	47	49	70	83	43	*	*	29	19	*
Dire Dawa	63	33	*	*	-	-	-	*	-	-	-	-	-	*	-	-

TABLE 6.35: HOLDERS PARTICIPATING IN AGRICULTURAL EXTENSION BY EDUCATIONAL ATTAINMENT IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders Participating in Agricultural Extension															
	All	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
National	581994	331951	98955	11878	21762	25332	20392	16610	18057	10934	11471	5142	2683	842	4349	1636
Tigray	91288	60014	17590	1875	3249	3840	1966	982	972	372	198	118	*	*	*	-
Afar	*	*	*	-	-	-	*	-	-	-	-	-	-	*	-	-
Amhara	148963	87037	40291	1454	2513	4508	2957	2642	2781	1515	1287	615	369	*	336	494
Oromia	274575	145861	34697	6945	13468	14008	12157	10559	11948	7188	7686	3860	1961	497	3115	625
Somali	1468	1021	334	*	-	*	-	*	*	-	*	-	-	-	-	-
Benishangul-Gumuz	5738	2765	959	97	452	294	396	284	161	110	*	34	*	*	55	*
S.N.N.P.R	58049	34102	4932	1430	2041	2600	2708	2071	2065	1724	2238	509	259	104	785	479
Gambella	275	65	*	-	*	*	*	*	*	11	*	-	*	*	-	*
Harari	657	419	*	*	-	-	*	*	*	*	-	-	*	-	-	-
Addis Ababa	93	*	*	-	*	-	*	*	*	-	-	*	-	-	*	-
Dire Dawa	449	323	-	-	-	*	*	-	*	-	-	-	-	-	-	-

TABLE 6.35.1: RURAL MEHER

Holders Participating in Agricultural Extension																
Geographic Area	All	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
National	553199	313684	94963	11282	20722	24271	19344	16012	17301	10195	11157	4980	2606	810	4280	1592
Tigray	80935	53248	15705	1735	2832	3422	1704	854	748	341	181	*	*	*	*	-
Afar	*	*	*	-	-	-	*	-	-	-	-	-	-	*	-	-
Amhara	144763	84349	39354	1454	2410	4421	2910	2512	2672	1483	1287	576	369	*	336	468
Oromia	268451	142306	34005	6676	13024	13784	11973	10341	11734	7000	7617	3823	1961	497	3084	625
Somali	1346	937	314	*	-	*	-	*	-	-	-	-	-	-	-	-
Benishangul-Gumuz	5563	2718	888	97	452	294	374	271	161	99	*	34	*	*	55	*
S.N.N.P.R	50317	29039	4545	1242	1966	2267	2180	1963	1866	1249	2020	461	*	*	748	479
Gambella	245	61	*	-	*	*	*	*	*	7	*	-	*	-	-	*
Harari	657	419	*	*	-	-	*	*	*	*	-	-	*	-	-	-
Addis Ababa	93	*	*	-	*	-	*	*	*	-	-	*	-	-	*	-
Dire Dawa	*	*	-	-	-	*	*	-	*	-	-	-	-	-	-	-

TABLE 6.35.2: RURAL BELG

[illegible]



TABLE 6.36: TOTAL CROP AREA (HECTARES) DAMAGE BY SIZE OF HOLDINGS IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Total Crop Area Damage							
	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
National	1578579	5103	135779	310373	554876	489628	69930	12891
Tigray	127651	345	15800	33027	43746	28779	3882	2072
Afar	2298	7	158	409	858	583	98	*
Amhara	556139	1705	38408	105034	223681	173085	11564	2663
Oromia	704756	1870	52594	122935	224426	246239	49468	7224
Somali	19308	46	1899	4736	7216	4901	460	*
Benishangul-Gumuz	18616	78	1427	3232	6357	6507	804	211
S.N.N.P.R	144577	1010	24531	39504	47176	28529	3358	469
Gambella	1507	23	337	413	432	275	*	-
Harari	1438	8	291	514	493	*	-	-
Addis Ababa	1020	3	19	39	143	529	270	*
Dire Dawa	1269	8	316	530	347	*	-	-

TABLE 6.36.1:RURAL MEHER

Geographic Area	Total Crop Area Damage							
	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
National	1487910	3897	123948	290513	526454	464937	65679	12482
Tigray	124063	282	15246	32148	42492	27941	3882	2072
Afar	2115	7	117	376	769	564	98	*
Amhara	531235	1450	35226	98617	214302	167725	11264	2652
Oromia	659245	1323	48011	114728	212035	230564	45752	6833
Somali	18953	25	1822	4625	7128	4846	457	*
Benishangul-Gumuz	18586	78	1424	3226	6344	6500	804	211
S.N.N.P.R	128638	700	21212	35330	41992	25817	3125	462
Gambella	1417	16	290	396	415	274	*	-
Harari	1425	8	285	510	493	*	-	-
Addis Ababa	1019	3	19	39	143	528	270	*
Dire Dawa	1214	8	297	518	341	*	-	-

TABLE 6.36.2:RURAL BELG

Geographic Area	Total Crop Area Damage							
	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
National	90670	6642	37721	23350	17324	5283	349	-
Tigray	3588	218	1879	889	528	*	-	-
Afar	183	5	107	42	*	-	-	-
Amhara	24904	2178	13263	6347	2470	642	*	-
Oromia	45511	2618	15155	12035	11828	3628	248	-
Somali	355	17	151	97	76	*	-	-
Benishangul-Gumuz	30	12	14	*	-	-	-	-
S.N.N.P.R	15939	1559	7048	3919	2391	925	*	-
Gambella	90	15	64	*	*	-	-	-
Harari	*	*	*	-	-	-	-	-
Addis Ababa	*	*	*	-	-	-	-	-
Dire Dawa	55	16	30	*	-	-	-	-

TABLE 6.37: 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
National	244311	834	23510	53263	87834	67873	9853	1145
Tigray	14617	42	1688	3855	5111	3101	676	*
Afar	760	1	64	153	308	169	*	*
Amhara	89873	319	7338	18831	37388	24570	1365	*
Oromia	106253	273	9341	21783	34303	32863	6888	802
Somali	6624	*	471	1490	2570	1885	*	-
Benishangul-Gumuz	4805	20	457	971	1605	1504	204	*
S.N.N.P.R	20269	152	3918	5760	6242	3653	482	*
Gambella	315	3	100	105	78	29	-	-
Harari	266	*	47	99	75	*	-	-
Addis Ababa	48	1	*	*	7	21	16	-
Dire Dawa	480	*	86	213	147	*	-	-

TABLE 6.37.1: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
National	232752	693	22025	50643	84376	64815	9171	1029
Tigray	14533	37	1668	3833	5076	3098	676	*
Afar	714	1	39	152	292	167	*	*
Amhara	87625	311	7045	18157	36539	24150	1361	*
Oromia	98966	203	8724	20445	32268	30402	6236	688
Somali	6443	3	435	1419	2529	1868	*	-
Benishangul-Gumuz	4797	20	455	967	1605	1502	204	*
S.N.N.P.R	18600	111	3439	5256	5769	3507	456	*
Gambella	298	3	93	103	71	29	-	-
Harari	260	*	43	99	75	*	-	-
Addis Ababa	47	1	*	*	7	20	16	-
Dire Dawa	470	*	83	209	146	*	-	-

TABLE 6.37.2: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
National	11559	825	4482	3022	2389	806	*	-
Tigray	84	15	48	*	*	-	-	-
Afar	*	*	*	*	*	-	-	-
Amhara	2248	140	983	684	371	*	-	-
Oromia	7288	395	2425	1980	1821	631	*	-
Somali	181	9	98	39	36	-	-	-
Benishangul-Gumuz	8	2	4	*	-	-	-	-
S.N.N.P.R	1669	258	870	297	140	104	-	-
Gambella	17	2	9	*	-	-	-	-
Harari	*	*	*	-	-	-	-	-
Addis Ababa	*	*	*	-	-	-	-	-
Dire Dawa	*	3	*	-	-	-	-	-

TABLE 6.38: 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
National	87132	303	8367	18797	31292	24318	3313	743
Tigray	2581	19	652	771	723	366	*	-
Afar	67	*	*	*	*	*	-	-
Amhara	21381	64	1896	5210	8504	5081	395	*
Oromia	47472	111	3362	8670	16917	15529	2506	378
Somali	604	4	83	181	226	*	*	-
Benishangul-Gumuz	2574	5	223	507	871	846	96	*
S.N.N.P.R	12287	96	2114	3405	3952	2374	236	*
Gambella	127	*	31	29	47	17	*	-
Harari	*	-	*	6	*	-	-	-
Addis Ababa	*	*	*	-	*	*	*	-
Dire Dawa	5	*	*	*	*	-	-	-

TABLE 6.38.1: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
National	81493	219	7450	17250	29418	23204	3236	717
Tigray	2511	17	623	745	711	366	*	-
Afar	40	*	*	*	5	*	-	-
Amhara	20044	54	1692	4748	8007	4918	395	*
Oromia	45025	76	2959	8050	16166	14989	2433	352
Somali	552	*	73	172	216	*	*	-
Benishangul-Gumuz	2570	5	223	507	870	845	96	*
S.N.N.P.R	10585	62	1847	2976	3373	1984	235	*
Gambella	126	*	30	29	47	17	*	-
Harari	*	-	*	6	*	-	-	-
Addis Ababa	*	*	*	-	*	*	*	-
Dire Dawa	4	*	*	*	*	-	-	-

TABLE 6.38.2: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
National	5640	509	2661	1386	831	252	-	-
Tigray	70	16	47	*	*	-	-	-
Afar	*	-	*	-	*	-	-	-
Amhara	1337	88	716	337	*	*	-	-
Oromia	2448	254	1186	615	342	50	-	-
Somali	51	2	16	*	*	*	-	-
Benishangul-Gumuz	3	*	*	*	-	-	-	-
S.N.N.P.R	1702	147	688	416	281	171	-	-
Gambella	1	*	*	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	*	*	-	-	-	-	-	-

**TABLE 6.39: 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
National	268250	810	18797	46066	94075	93599	12515	2389
Tigray	20575	49	2088	4751	6887	5929	713	*
Afar	649	*	*	122	238	203	*	-
Amhara	96392	269	5284	14957	37873	33887	2957	1167
Oromia	119194	292	7034	18602	38405	45986	7877	999
Somali	356	*	74	105	162	*	-	-
Benishangul-Gumuz	6642	38	466	1050	2327	2456	276	*
S.N.N.P.R	23478	152	3720	6318	7949	4800	508	*
Gambella	364	6	73	109	105	70	*	-
Harari	40	*	6	13	*	*	-	-
Addis Ababa	500	1	4	23	*	249	*	*
Dire Dawa	60	-	8	17	*	*	-	-

**TABLE 6.39.1: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
National	254482	574	16752	42495	89340	90867	12101	2353
Tigray	19821	45	1937	4440	6682	5848	713	*
Afar	626	*	*	111	226	203	*	-
Amhara	94176	248	4973	14355	36937	33546	2949	1167
Oromia	112930	177	6327	17122	36370	44450	7521	964
Somali	339	*	72	100	158	*	-	-
Benishangul-Gumuz	6633	38	465	1049	2321	2454	276	*
S.N.N.P.R	19007	60	2852	5160	6413	4037	457	*
Gambella	353	5	68	106	104	70	*	-
Harari	38	-	6	13	*	*	-	-
Addis Ababa	499	1	4	23	*	249	*	*
Dire Dawa	59	-	8	17	*	*	-	-

**TABLE 6.39.2: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
National	13767	915	5373	3814	2685	904	*	-
Tigray	754	48	286	*	*	*	-	-
Afar	*	*	*	*	*	-	-	-
Amhara	2216	311	1105	428	143	*	-	-
Oromia	6264	258	1992	1842	1626	470	*	-
Somali	17	*	6	*	*	-	-	-
Benishangul-Gumuz	9	3	5	*	-	-	-	-
S.N.N.P.R	4471	293	1959	1341	721	157	-	-
Gambella	*	1	*	*	*	-	-	-
Harari	*	*	*	-	-	-	-	-
Addis Ababa	*	*	-	-	-	-	-	-
Dire Dawa	*	*	*	-	-	-	-	-

**TABLE 6.40: 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
National	85255	222	7110	16650	31302	25721	3389	861
Tigray	5203	22	745	1649	1779	971	*	*
Afar	6	*	-	*	3	*	-	-
Amhara	33530	68	2366	6814	13796	9736	491	*
Oromia	34962	92	2571	5357	11372	12470	2549	552
Somali	86	*	*	40	17	*	-	-
Benishangul-Gumuz	1289	1	57	179	497	463	82	*
S.N.N.P.R	10074	37	1328	2577	3816	2053	233	*
Gambella	32	*	13	10	9	*	-	-
Harari	*	-	*	*	*	*	-	-
Addis Ababa	20	*	*	*	4	7	5	*
Dire Dawa	*	-	*	*	*	-	-	-

**TABLE 6.40.1: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
National	82509	169	6543	15843	30449	25309	3335	861
Tigray	5184	22	738	1639	1778	970	*	*
Afar	6	*	-	*	3	*	-	-
Amhara	32667	65	2224	6521	13459	9647	491	*
Oromia	33723	50	2280	5026	11053	12237	2527	552
Somali	60	-	*	33	*	*	-	-
Benishangul-Gumuz	1287	1	56	179	496	463	82	*
S.N.N.P.R	9480	30	1204	2410	3631	1974	201	*
Gambella	31	*	12	10	9	*	-	-
Harari	*	-	*	*	*	*	-	-
Addis Ababa	20	*	*	*	4	7	5	*
Dire Dawa	*	-	*	*	*	-	-	-

**TABLE 6.40.2:RURAL BELG**

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
National	2746	283	1283	582	439	137	*	-
Tigray	19	6	11	*	-	*	-	-
Afar	-	-	-	-	-	-	-	-
Amhara	863	47	435	235	*	*	-	-
Oromia	1239	182	580	227	142	87	*	-
Somali	*	*	*	*	*	*	-	-
Benishangul-Gumuz	2	*	*	-	-	-	-	-
S.N.N.P.R	594	44	253	109	151	*	-	-
Gambella	*	-	*	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	*	*	-	-	-	-	-	-
Dire Dawa	*	*	-	-	-	-	-	-

**TABLE 6.41: 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
National	187759	864	21946	43431	66502	47502	6565	948
Tigray	12579	33	1774	3660	4728	2132	188	*

Afar	*	-	*	5	22	24	*	*
Amhara	36868	119	3196	8744	15232	9022	376	*
Oromia	108285	391	10395	22690	38170	31093	5033	513
Somali	249	*	45	54	*	*	-	-
Benishangul-Gumuz	1227	4	76	221	399	387	63	*
S.N.N.P.R	27813	309	6388	7880	7662	4663	859	*
Gambella	433	*	45	101	134	122	*	-
Harari	120	*	17	59	*	*	-	-
Addis Ababa	4	*	*	*	*	*	*	-
Dire Dawa	*	*	9	*	*	-	-	-

TABLE 6.41.1: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
National	184111	814	21341	42431	65388	46715	6501	920
Tigray	12473	32	1734	3614	4715	2126	188	*
Afar	*	-	*	5	22	24	*	*
Amhara	35484	105	2984	8306	14755	8785	368	*
Oromia	106915	379	10239	22438	37764	30628	4981	486
Somali	243	*	45	52	*	*	-	-
Benishangul-Gumuz	1225	4	76	220	398	387	63	*
S.N.N.P.R	27038	288	6192	7618	7452	4583	855	*
Gambella	428	4	45	101	131	122	*	-
Harari	120	*	17	59	*	*	-	-
Addis Ababa	4	*	*	*	*	*	*	-
Dire Dawa	*	*	*	*	*	-	-	-

TABLE 6.41.2: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
National	3648	420	1878	847	422	80	*	-
Tigray	105	32	63	*	-	*	-	-
Afar	*	*	-	-	-	-	-	-
Amhara	1384	126	732	359	150	*	-	-
Oromia	1370	153	701	291	180	44	-	-
Somali	6	*	2	*	-	-	-	-
Benishangul-Gumuz	*	*	*	-	-	-	-	-
S.N.N.P.R	776	105	375	185	92	*	*	-
Gambella	*	*	*	*	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	*	*	-	-	-	-	-	-
Dire Dawa	*	*	-	-	-	-	-	-

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

Geographic Area	Area Damaged by Wild Animals							
	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
National	98534	362	9344	19218	35223	30573	3290	524
Tigray	9880	27	1458	2663	3837	1276	*	*
Afar	6	-	*	-	*	*	-	-
Amhara	48705	177	3672	8490	19036	16487	839	*
Oromia	32389	86	3047	6176	9496	11342	2056	186
Somali	*	-	-	*	*	*	-	-

Benishangul-Gumuz	618	6	50	102	233	201	25	-
S.N.N.P.R	6733	66	1104	1757	2535	1188	*	*
Gambella	*	-	-	*	*	*	-	-
Harari	*	*	*	*	*	-	-	-
Addis Ababa	*	*	*	*	*	*	*	-
Dire Dawa	*	-	*	*	*	-	-	-

TABLE 6.42.1:RURAL MEHER

Geographic Area	Area Damaged by Wild Animals							
	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
National	96326	315	8804	18567	34618	30232	3271	520
Tigray	9776	26	1391	2641	3828	1272	*	*
Afar	6	-	*	-	*	*	-	-
Amhara	47797	158	3459	8144	18825	16389	822	-
Oromia	32113	85	3020	6119	9426	11222	2055	186
Somali	*	-	-	*	*	*	-	-
Benishangul-Gumuz	618	6	50	102	233	201	25	-
S.N.N.P.R	5814	40	872	1532	2220	1069	*	*
Gambella	*	-	-	*	*	*	-	-
Harari	*	*	*	*	*	-	-	-
Addis Ababa	*	*	*	*	*	*	*	-
Dire Dawa	*	-	*	*	*	-	-	-

TABLE 6.42.2:RURAL BELG

Geographic Area	Area Damaged by Wild Animals							
	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
National	2207	215	1355	462	170	*	-	-
Tigray	104	24	73	*	*	*	-	-
Afar	-	-	-	-	-	-	-	-
Amhara	908	33	678	181	*	-	-	-
Oromia	276	24	122	*	*	-	-	-
Somali	-	-	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-	-	-
S.N.N.P.R	919	134	481	211	88	*	-	-
Gambella	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

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

Geographic Area	Area Damaged by Birds							
	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
National	166	3	20	27	64	*	*	-
Tigray	*	-	*	-	*	-	-	-
Afar	-	-	-	-	-	-	-	-
Amhara	39	-	*	*	*	*	-	-
Oromia	71	*	3	*	*	*	*	-
Somali	-	-	-	-	-	-	-	-
Benishangul-Gumuz	*	-	*	*	*	-	-	-
S.N.N.P.R	56	2	17	12	18	7	-	-

Gambella	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.43.1:RURAL MEHER

Geographic Area	Area Damaged by Birds							
	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
National	104	-	*	*	43	*	-	-
Tigray	*	-	-	-	*	-	-	-
Afar	-	-	-	-	-	-	-	-
Amhara	38	-	-	*	*	*	-	-
Oromia	*	-	*	*	*	*	-	-
Somali	-	-	-	-	-	-	-	-
Benishangul-Gumuz	*	-	*	-	-	-	-	-
S.N.N.P.R	*	-	-	*	*	-	-	-
Gambella	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.43.2:RURAL BELG

Geographic Area	Area Damaged by Birds							
	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
National	62	4	28	17	12	*	-	-
Tigray	*	*	*	-	*	-	-	-
Afar	-	-	-	-	-	-	-	-
Amhara	*	*	*	*	-	-	-	-
Oromia	7	*	6	*	*	-	-	-
Somali	-	-	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	-	-	-	-	-
S.N.N.P.R	53	3	21	17	12	*	-	-
Gambella	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

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

Geographic Area	Area Damaged by Hail Stone							
	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
National	207054	380	14857	36269	67363	71955	13239	2990
Tigray	26245	54	3946	7741	8406	5647	317	*
Afar	*	*	*	-	*	*	-	-
Amhara	72142	148	4574	13519	28955	22432	1982	*
Oromia	81804	95	2938	7962	20895	37470	10205	2239
Somali	*	-	*	*	*	*	-	-
Benishangul-Gumuz	798	3	28	94	225	430	18	-
S.N.N.P.R	25728	78	3337	6929	8834	5808	665	*
Gambella	53	*	15	11	10	*	-	-
Harari	*	-	-	*	-	-	-	-
Addis Ababa	246	*	*	7	29	141	53	*
Dire Dawa	*	-	*	*	*	-	-	-

TABLE 6.44.1:RURAL MEHER

Geographic Area	Area Damaged by Hail Stone							
	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
National	204751	365	14556	35770	66648	71245	13179	2989
Tigray	26188	53	3932	7716	8391	5643	317	*
Afar	*	*	*	-	*	*	-	-
Amhara	71708	148	4534	13373	28777	22365	1982	*
Oromia	80632	87	2810	7788	20552	36987	10168	2239
Somali	*	-	*	*	*	*	-	-
Benishangul-Gumuz	798	3	28	94	225	430	18	-
S.N.N.P.R	25088	72	3218	6773	8654	5652	642	*
Gambella	53	*	15	11	10	*	-	-
Harari	*	-	-	*	-	-	-	-
Addis Ababa	246	*	*	7	29	141	53	*
Dire Dawa	*	-	*	*	*	-	-	-

TABLE 6.44.2:RURAL BELG

Geographic Area	Area Damaged by Hail Stone							
	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
National	2303	137	1009	680	350	128	-	-
Tigray	57	*	30	*	-	-	-	-
Afar	-	-	-	-	-	-	-	-
Amhara	433	16	208	123	78	*	-	-
Oromia	1173	24	500	426	180	*	-	-
Somali	-	-	-	-	-	-	-	-
Benishangul-Gumuz	-	-	-	-	-	-	-	-
S.N.N.P.R	640	91	271	108	92	77	-	-
Gambella	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	*	*	-	-	-	-	-	-

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

Geographic Area	Area Damaged by Pests and Insects							
	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
National	5009	*	305	1001	2011	1509	166	*
Tigray	128	*	10	31	*	*	-	-
Afar	*	-	*	-	*	-	-	-
Amhara	681	*	39	194	277	156	*	-
Oromia	3465	2	205	601	1378	1116	163	-
Somali	405	*	*	*	*	*	-	-
Benishangul-Gumuz	51	-	5	2	15	25	-	*
S.N.N.P.R	*	*	31	78	*	*	-	-
Gambella	6	-	*	2	-	*	-	-
Harari	*	-	-	*	*	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.45.1:RURAL MEHER

Geographic Area	Area Damaged by Pests and Insects							
	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
National	3634	3	207	761	1502	1070	88	*
Tigray	128	*	10	31	*	*	-	-
Afar	*	-	*	-	*	-	-	-
Amhara	575	*	33	175	234	130	-	-
Oromia	2357	*	125	410	979	755	88	-
Somali	404	*	*	*	*	*	-	-
Benishangul-Gumuz	51	-	5	2	15	25	-	*
S.N.N.P.R	110	*	18	49	39	*	-	-
Gambella	6	-	*	2	-	*	-	-
Harari	*	-	-	*	*	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.45.2:RURAL BELG

Geographic Area	Area Damaged by Pests and Insects							
	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
National	1375	24	175	275	570	327	*	-
Tigray	-	-	-	-	-	-	-	-
Afar	-	-	-	-	-	-	-	-
Amhara	106	*	68	*	*	-	-	-
Oromia	1107	6	93	242	491	271	*	-
Somali	*	-	*	-	-	-	-	-
Benishangul-Gumuz	*	*	-	-	-	-	-	-
S.N.N.P.R	*	*	14	*	*	*	-	-
Gambella	-	-	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.46: 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
National	393320	1277	31136	75239	138712	126124	17546	3287

Tigray	35824	97	3438	7900	12192	9343	1558	*
Afar	662	*	48	113	253	153	-	*
Amhara	156252	526	10019	28213	62500	51616	3150	*
Oromia	170443	523	13611	30978	53344	58270	12161	1556
Somali	10860	20	1188	2753	3924	2684	*	*
Benishangul-Gumuz	598	1	66	105	178	187	40	*
S.N.N.P.R	16829	91	2300	4555	5805	3697	342	*
Gambella	167	5	57	46	40	*	-	-
Harari	942	6	215	317	330	*	-	-
Addis Ababa	132	*	*	*	17	48	54	*
Dire Dawa	612	4	190	255	128	*	-	-

TABLE 6.46.1: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
National	347482	743	26257	66694	124601	111330	14766	3091
Tigray	33436	49	3213	7484	11233	8603	1558	*
Afar	575	*	36	92	215	138	-	*
Amhara	141030	357	8281	24821	56732	47725	2891	*
Oromia	146407	267	11518	27308	47402	48828	9719	1365
Somali	10798	18	1162	2738	3907	2682	*	*
Benishangul-Gumuz	596	1	66	105	178	186	40	*
S.N.N.P.R	12886	36	1566	3546	4428	3007	263	*
Gambella	112	1	23	34	35	*	-	-
Harari	936	6	213	314	330	*	-	-
Addis Ababa	132	*	*	*	17	48	54	*
Dire Dawa	573	4	176	249	124	*	-	-

TABLE 6.46.2: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
National	45838	3146	18827	11976	9239	2452	*	-
Tigray	2388	70	1319	658	317	*	-	-
Afar	86	5	61	19	*	-	-	-
Amhara	15222	1384	8208	3953	1387	285	*	-
Oromia	24037	1271	7365	6300	6963	2028	*	-
Somali	62	*	25	26	*	-	-	-
Benishangul-Gumuz	1	*	*	-	-	-	-	-
S.N.N.P.R	3943	391	1783	1009	561	115	*	-
Gambella	55	12	40	*	*	-	-	-
Harari	*	*	*	-	-	-	-	-
Addis Ababa	*	*	-	-	-	-	-	-
Dire Dawa	39	9	21	*	-	-	-	-

TABLE 6.47: CROP AREA (HECTARES) DAMAGED BY OTHER CAUSE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

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
National	1789	33	388	412	499	401	54	*
Tigray	19	*	2	6	6	*	*	-
Afar	*	*	-	*	*	-	-	-
Amhara	276	*	23	52	99	92	*	*
Oromia	417	5	87	112	121	62	*	-
Somali	21	*	1	6	*	*	-	-

Benishangul-Gumuz	16	*	*	1	*	*	-	-
S.N.N.P.R	1038	25	274	234	257	231	*	*
Gambella	1	*	*	*	*	*	-	-
Harari	*	-	-	*	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	2	-	*	*	*	*	-	-

TABLE 6.47.1: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
National	265	*	13	45	70	104	*	-
Tigray	13	*	*	5	3	*	*	-
Afar	*	-	-	-	*	-	-	-
Amhara	91	*	*	*	15	62	*	-
Oromia	114	*	8	20	32	29	*	-
Somali	*	-	-	*	*	*	-	-
Benishangul-Gumuz	11	*	*	*	*	*	-	-
S.N.N.P.R	27	*	*	10	*	*	*	-
Gambella	*	-	*	*	*	*	-	-
Harari	*	-	-	*	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.47.2: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
National	1524	166	651	289	215	191	*	-
Tigray	*	1	1	*	-	-	-	-
Afar	*	*	*	-	-	-	-	-
Amhara	185	16	128	32	9	-	-	-
Oromia	303	51	184	43	21	*	*	-
Somali	12	*	1	4	*	*	-	-
Benishangul-Gumuz	5	2	2	*	-	-	-	-
S.N.N.P.R	1011	94	333	207	182	184	*	-
Gambella	1	*	*	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	2	*	*	*	-	-	-	-

TABLE 6.48: 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
National	731876	122535	114907	81931
Tigray	58021	6905	4907	7698
Afar	9111	31	*	*
Amhara	336585	35810	27581	43819
Oromia	263634	48077	77380	25219
Somali	6774	461	*	*
Benishangul-Gumuz	9816	1344	271	195
S.N.N.P.R	42904	27868	2706	2695
Gambella	81	457	*	-
Harari	1158	*	437	*
Addis Ababa	50	*	217	49

Dire Dawa	3743	444	*	1362
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TABLE 6.49: 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
National	7967844	577234
Tigray	622573	42267
Afar	3314	512
Amhara	2706068	177493
Oromia	2974721	245676
Somali	45034	4141
Benishangul-Gumuz	71931	10679
S.N.N.P.R	1519087	93412
Gambella	9668	594
Harari	1363	*
Addis Ababa	11449	*
Dire Dawa	2637	2090

TABLE 6.50: 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 the Advantage	Too Expensive	Shortage of Money	Insufficient Supply	No Credit Service	Suspicious of its Efficiency	Others
National	1649296	881714	4912043	421792	38150	334487	2358801
Tigray	83685	34445	352756	15923	994	29986	175539
Afar	2659	*	1949	3425	*	71	1240
Amhara	552996	224319	1706166	82792	9832	175883	752782
Oromia	646415	475427	1928984	180677	16739	78444	981151
Somali	10247	1154	34203	32818	*	32	2333
Benishangul-Gumuz	34066	12459	66023	10606	548	1265	20783
S.N.N.P.R	305618	131443	803820	85267	8659	48034	404457
Gambella	10256	359	3018	9559	140	376	9394
Harari	664	1290	5433	174	-	140	1003
Addis Ababa	1025	283	1846	277	*	*	8380
Dire Dawa	1663	457	7844	275	*	*	1738

TABLE 6.51: NUMBER OF AGRICULTURAL HOLDERS BY PLOWING METHOD IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Method of Plowing				
	Hand Dung	Ox/Horse Driven	Tractor	Hand Dung and Ox/Horse Driven	Tractor and Ox/horse Driven
National	1864987	4540917	9775	3818850	18769
Tigray	10011	499706	3378	155237	696
Afar	3473	3841	452	4993	120
Amhara	86153	1647998	328	1231755	2046
Oromia	584265	1972904	2111	1388812	10569
Somali	11497	27595	3139	41885	3209
Benishangul-Gumuz	66984	30664	-	23116	*
S.N.N.P.R	1066350	342798	245	958335	1331
Gambella	24668	923	-	1065	58

Harari	6316	2090	*	4416	*
Addis Ababa	1469	11059	-	396	*
Dire Dawa	3801	1338	*	8841	*

TABLE 6.52: NUMBER OF AGRICULTURAL HOLDERS BY METHOD OF SOIL CONSERVATION IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Method of Soil Conservation				
	Terracing	Water Catchments	Afforestation	Plowing along The Counter	Others
National	1846994	949493	77648	4532326	676436
Tigray	305328	143318	1068	198155	2694
Afar	1717	2007	*	1410	295
Amhara	757987	381564	5399	1421830	218295
Oromia	504109	307246	15212	2036603	354092
Somali	13076	11526	*	14918	190
Benishangul-Gumuz	4586	10895	247	37784	3520
S.N.N.P.R	242940	85559	54426	812639	92961
Gambella	485	269	414	348	883
Harari	8109	1831	196	760	*
Addis Ababa	581	351	*	7264	3333
Dire Dawa	8076	4928	*	616	*

TABLE 6.53: 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	Economical ly Important Crops	Any two or more packages
National	189070	902688	47278	5541	132291	60252
Tigray	41577	30404	2065	703	14007	6479
Afar	54	-	-	-	*	-
Amhara	88435	282106	22895	3363	39779	26094
Oromia	42330	444169	11943	385	44000	16283
Somali	*	*	-	-	*	-
Benishangul-Gumuz	1137	9156	658	*	979	240
S.N.N.P.R	14656	135989	9713	1011	32732	11103
Gambella	236	268	-	10	84	*
Harari	*	328	-	-	*	-
Addis Ababa	-	236	*	-	148	-
Dire Dawa	281	-	-	*	*	*

TABLE 6.54: 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 Available	Insufficient Arable Land	Others
National	1514694	4029740	591350	1847715	968814	597336
Tigray	78865	209925	36952	176096	45703	55187
Afar	2522	*	77	20069	229	406
Amhara	405759	1289669	221800	308404	219678	192390
Oromia	553048	1575052	187965	778465	328971	215148
Somali	9625	12778	724	72433	*	1071
Benishangul-Gumuz	27332	63435	5058	8643	3212	4624
S.N.N.P.R	421040	866756	135964	451198	365506	126423
Gambella	7963	1164	896	15841	1255	494
Harari	4353	4008	1216	1052	1702	643

Addis Ababa	1152	1222	322	11171	1394	347
Dire Dawa	3035	5207	376	4343	1132	603

TABLE 6.55: NUMBER OF AGRICULTURAL HOLDERS WHO USE SERVICES  
IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Service Type			
	Credit Service	%	Advisory Service	%
National	2097649	100.00	2118895	100.00
Tigray	241758	11.53	323267	15.26
Afar	*	*	1339	0.06
Amhara	654102	31.18	905454	42.73
Oromia	1058332	50.45	702706	33.16
Somali	*	*	459	0.02
Benishangul-Gumuz	8396	0.40	17458	0.82
S.N.N.P.R	127392	6.07	162146	7.65
Gambella	302	0.01	2162	0.10
Harari	1948	0.09	1517	0.07
Addis Ababa	3604	0.17	360	0.02
Dire Dawa	1208	0.06	2028	0.10

TABLE 6.56: 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	
	Government	Private Organization	Traders	Others	Do not buy	Not Reporting	DAP	UREA
National	2469767	556497	781091	166228	6246041	92344	285.13	215.71
Tigray	316920	33385	2671	9160	303406	6278	281.58	217.36
Afar	631	*	414	*	11602	1584	268.00	195.26
Amhara	608588	369285	63645	4968	1905802	30631	285.90	217.03
Oromia	1312363	117259	266098	27530	2232353	26101	281.11	217.06
Somali	364	494	556	*	85427	2402	254.00	219.00
Benishangul-Gumuz	13052	458	2555	*	104320	3154	299.33	241.07
S.N.N.P.R	207324	31934	440533	124008	1555315	21682	294.44	206.70
Gambella	259	49	*	*	26310	191	244.88	203.26
Harari	3955	178	2875	-	6414	*	277.89	248.05
Addis Ababa	5859	*	1301	*	2184	50	279.64	223.88
Dire Dawa	452	117	437	-	12909	176	253.53	219.58

TABLE 6.57: 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	Male	%	Female	%
National	59428	49396	83.12	10033	16.88
Tigray	1187	932	78.52	255	21.48
Afar	69	69	100.00	-	-
Amhara	6310	5187	82.20	1123	17.80
Oromia	24256	20665	85.20	3591	14.80
Somali	1455	1111	76.36	344	23.64
Benishangul-Gumuz	104	100	96.15	*	*
S.N.N.P.R	24847	20425	82.20	4422	17.80
Gambella	343	237	69.10	106	30.90
Harari	104	67	64.42	37	35.58
Addis Ababa	567	441	77.78	126	22.22

Dire Dawa	186	162	87.10	24	12.90
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TABLE 6.58: NUMBER OF HOLDERS WHO PRACTICE IRRIGATION BY SOURCE OF WATER IN URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders who Practice Irrigation in Meher Season					
	River	Lake	Well	Tap Water	Others	Not Stated
National	10145	2555	745	2019	1107	1125
Tigray	1119	52	56	241	45	69
Afar	563	-	-	9	-	1
Amhara	2763	167	173	678	451	124
Oromia	3621	1205	407	655	200	583
Somali	241	13	7	95	57	16
Benishangul-Gumuz	147	57	*	33	29	*
S.N.N.P.R	896	996	30	212	145	275
Gambella	*	-	-	-	-	-
Harari	63	22	*	8	9	*
Addis Ababa	584	37	*	*	*	41
Dire Dawa	134	6	25	16	156	*

TABLE 6.59: 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
National	553199	176045	87515	28869	43055	6558	81658	21160
Tigray	80935	26527	36881	9877	27996	3936	33860	5604
Afar	*	*	-	-	-	-	-	-
Amhara	144763	49103	30581	12100	7780	1343	24883	7202
Oromia	268451	89241	16355	5971	4888	979	18690	7481
Somali	1346	473	-	-	*	*	309	64
Benishangul-	5563	2347	203	68	52	*	*	*
S.N.N.P.R	50317	7632	3449	831	1990	246	3719	757
Gambella	245	81	-	-	-	-	-	-
Harari	657	95	-	-	-	-	*	*
Addis Ababa	93	54	46	20	-	-	61	33
Dire Dawa	*	*	-	-	-	-	*	*

TABLE 6.59: CONTD.1

Geographic Area	Maize		Sorghum		Rice		Field peas	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	357666	104516	33422	7354	766	172	7059	764
Tigray	20524	3864	8579	2460	-	-	2094	160
Afar	*	*	*	*	-	-	-	-
Amhara	88231	24413	5937	1455	699	156	2600	363
Oromia	224511	70151	13061	2419	*	*	1359	192
Somali	833	137	738	214	-	-	-	-
Benishangul-Gumuz	4885	1919	444	205	*	*	-	-
S.N.N.P.R	17709	3801	3625	445	-	-	1006	49
Gambella	181	58	73	*	*	*	-	-
Harari	206	*	565	58	-	-	-	-

Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	*	*	*	*	-	-	-	-

TABLE 6.59: CONTD.2

Geographic Area	Haricot beans		Chick peas		Lentils		Neug	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	10874	920	3809	705	2150	336	2842	429
Tigray	206	*	1054	142	905	99	651	37
Afar	*	*	-	-	-	-	-	-
Amhara	445	22	1453	349	591	84	1453	253
Oromia	5887	595	1155	201	655	154	538	111
Somali	*	*	-	-	-	-	-	-
Benishangul-Gumuz	541	53	-	-	-	-	137	21
S.N.N.P.R	3673	236	*	*	-	-	*	*
Gambella	*	*	-	-	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	*	*	-	-	-	-
Dire Dawa	*	*	-	-	-	-	-	-

TABLE 6.59: CONTD.3

Geographic Area	Linseed		Ground nuts		Sesame		Rapeseed	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	2174	235	721	89	1972	479	9128	481
Tigray	818	64	-	-	102	*	*	*
Afar	-	-	*	*	*	*	-	-
Amhara	505	33	-	-	1268	305	6295	378
Oromia	732	137	464	59	291	19	2534	98
Somali	-	-	-	-	-	-	-	-
Benishangul-Gumuz	*	*	42	*	214	39	*	*
S.N.N.P.R	*	*	*	*	*	*	175	*
Gambella	-	-	-	-	*	*	-	-
Harari	-	-	128	*	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	*	*	-	-

TABLE 6.59: CONTD.4

Geographic Area	Other Grains		Tomatoes		Red Pepper		Onions	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	1350	*	1473	73	6731	357	5429	173
Tigray	*	*	671	15	949	*	911	*
Afar	*	*	-	-	-	-	*	*
Amhara	522	292	*	*	3367	160	2027	100
Oromia	171	1	626	*	1894	53	1140	18
Somali	-	-	*	*	-	-	*	*
Benishangul-Gumuz	*	*	-	-	136	2	*	*

S.N.N.P.R	586	27	*	*	385	51	1282	13
Gambella	-	-	*	*	-	-	-	-
Harari	-	-	-	-	-	-	-	-
Addis Ababa	-	-	-	-	-	-	-	-
Dire Dawa	-	-	-	-	-	-	-	-

TABLE 6.59: CONTD.5

Geographic Area	Potatoes		Sweet potatoes		Enset		Other Permanent Crops	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
National	5395	220	5304	182	30976	1442	*	*
Tigray	1381	41	*	*	-	-	-	-
Afar	-	-	-	-	-	-	-	-
Amhara	1800	96	*	*	-	-	*	*
Oromia	1095	58	2141	91	9328	400	-	-
Somali	*	*	-	-	-	-	-	-
Benishangul-Gumuz	*	*	*	*	-	-	-	-
S.N.N.P.R	1015	23	2927	86	21601	1041	*	*
Gambella	-	-	*	*	*	*	-	-
Harari	*	*	*	*	-	-	-	-
Addis Ababa	*	*	-	-	-	-	-	-
Dire Dawa	-	-	*	*	-	-	-	-

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			Fertilizer Applied			Pesticide Applied		
	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V
TOTAL	260614	5868	2	98702	3694	4	3428876	28189	1	730999	12707	2
Grain Crops	246712	5721	2	56524	2768	5	3071825	26781	1	719547	12678	2
Cereals	239029	5556	2	49824	2484	5	2842279	25395	1	704006	12498	2
Teff	9750	644	7	8486	895	11	922689	12769	1	299282	7490	3
Barley	3159	325	10	3809	451	12	326432	7776	2	74127	2889	4
Wheat	19359	926	5	3177	323	10	587104	10554	2	284241	7471	3
Maize	201605	5247	3	21955	1149	5	670393	9200	1	20632	1090	5
Sorghum	4034	534	13	11327	1172	10	190691	4306	2	12410	788	6
Finger millet	867	121	14	495	176	36	136640	5243	4	10117	1169	12
Oats ('Aja')	74	20	27	120	28	24	7522	460	6	3020	277	9
Rice	181	42	23	456	286	63	808	151	19	177	65	37
Pulses	5188	649	13	4231	532	13	172753	3087	2	11880	714	6
Horse beans	1388	130	9	864	105	12	96117	2104	2	3590	265	7
Field peas	751	99	13	247	50	20	32618	1168	4	5178	521	10
Haricot beans	1056	103	10	582	72	12	22840	983	4	756	149	20
Chick peas	1276	591	46	1226	169	14	9891	511	5	997	127	13
Lentils	279	51	18	361	137	38	3976	250	6	419	67	16
Vetch	260	60	23	811	315	39	3176	294	9	793	268	34
Soya	144	41	28	4	3	70	861	171	20	43	19	43
Fenugreek	34	9	28	99	23	24	2370	174	7	102	36	36
Gibto	-	-	-	38	39	102	903	142	16	4	4	98
Oil Seeds	1639	196	12	675	161	24	50134	2034	4	2752	281	10
Neug	379	68	18	293	140	48	24670	1640	7	380	72	19
Linseed	275	63	23	57	20	35	7513	445	6	2020	258	13
Ground nuts	82	32	39	75	30	40	3284	477	15	74	36	49
Sufflower	254	128	51	36	14	38	782	96	12	23	10	42
Sesame	322	78	24	158	65	41	3975	386	10	127	55	43
Rapeseed	327	54	16	55	14	25	9910	576	6	127	40	32
Other Grains	856	391	46	1793	569	32	6659	479	7	910	342	38
Vegetables	278	42	15	3200	287	9	42375	1405	3	1909	233	12
Lettuce	11	5	49	71	28	40	86	26	30	24	11	47
Head cabbage	30	7	22	236	95	41	336	103	30	57	27	47
Kale	23	6	25	170	25	15	8409	544	6	62	12	19
Tomatoes	77	25	32	752	149	20	895	182	20	357	114	32
Green peppers	14	6	43	453	51	11	1931	105	5	45	20	45
Red peppers	104	27	26	1452	196	13	26623	1150	4	1341	195	15
Swiss chard	7	2	31	10	3	27	49	15	31	-	-	56
Others	11	4	35	57	8	13	4046	503	12	22	6	29
Root Crops	783	127	16	7423	459	6	60901	1879	3	2876	363	13
Beet root	44	11	25	87	18	21	245	28	11	7	4	60
Carrot	86	18	21	139	26	19	380	54	14	2	1	55
Onions	349	116	33	2410	295	12	6132	426	7	837	211	25
Potatoes	116	24	21	2259	246	11	24607	1629	7	1522	275	18
Garlic	7	2	27	385	42	11	2644	190	7	24	10	43
Taro ('Godere')	29	9	32	60	11	19	9154	343	4	46	14	30
Sweet potatoes	149	34	22	1660	157	9	15640	504	3	347	98	28
Others	3	2	49	422	88	21	2098	309	15	90	38	42
Permanent Crops	12841	878	7	31555	1529	5	253774	3827	2	6667	557	8
Fruit Crops	454	68	15	5865	523	9	10615	321	3	165	71	43
Avocado	68	13	20	80	18	23	628	46	7	1	1	45
Bananas	95	15	16	3687	447	12	5398	217	4	19	4	23
Guava (Zeytuna)	94	42	44	298	48	16	416	34	8	5	2	38
Lemons	6	2	29	197	27	14	192	14	7	2	1	47
Mangoes	57	16	27	297	40	14	1110	105	9	4	2	51
Oranges	28	7	24	435	54	12	828	61	7	24	7	31
Papayas	76	23	30	468	61	13	792	50	6	21	15	70
Pineapples	-	-	99	-	-	79	8	3	35	-	-	-
Others	28	8	30	404	94	23	1241	105	8	88	69	78
Stimulant Crops	12086	870	7	21385	1042	5	90475	1811	2	5904	540	9
Chat	-	-	-	10830	612	6	40591	1089	3	4174	462	11
Coffee	12086	870	7	8494	647	8	40831	1288	3	1617	275	17
Hops	-	-	-	2060	123	6	9038	295	3	113	25	22
Others	-	-	-	-	-	98	16	13	84	-	-	-
Other Permanent Crops	302	51	17	4306	551	13	152684	3257	2	598	84	14
Enset	248	49	20	1066	147	14	148906	3250	2	515	75	15
Sugar Cane	30	8	28	3191	501	16	3385	321	9	74	33	45
Others	23	12	50	49	11	23	394	42	11	10	4	47

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			Fertilizer Applied			Pesticide Applied		
	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V
TOTAL	12882	635	5	5496	401	7	62755	938	2	31950	610	2
Grain Crops	10582	406	4	2396	194	8	54588	752	1	30422	585	2
Cereals	10188	399	4	2229	190	9	51813	728	1	29562	571	2
Teff	1129	123	11	482	176	36	16270	347	2	10730	331	3
Barley	250	23	9	103	15	14	5052	135	3	2865	122	4
Wheat	2201	101	5	114	12	11	17129	347	2	13540	340	3
Maize	6243	357	6	1146	57	5	10399	389	4	1315	83	6
Sorghum	292	50	17	363	28	8	1583	74	5	705	106	15
Finger millet	63	15	23	17	7	44	1215	83	7	266	61	23
Oats ('Aja')	5	2	53	2	1	48	153	17	11	132	30	23
Rice	6	3	44	3	1	35	11	3	31	9	3	34
Pulses	255	33	13	138	19	13	2235	90	4	526	36	7
Horse beans	39	7	18	10	2	21	843	45	5	142	22	15
Field peas	13	3	23	4	2	36	344	23	7	128	16	13
Haricot beans	160	31	19	49	16	33	679	45	7	100	19	19
Chick peas	20	5	27	27	6	21	112	17	15	77	9	12
Lentils	7	3	35	18	3	17	59	11	18	24	6	25
Vetch	5	1	22	29	4	15	51	8	16	38	5	14
Soya	9	4	48	-	-	-	74	44	60	-	-	-
Fenugreek	3	1	40	1	-	57	48	7	14	18	4	20
Gibto	-	-	-	-	-	70	23	19	82	-	-	-
Oil Seeds	124	50	40	15	6	39	394	81	20	288	105	36
Neug	64	44	68	4	2	58	156	70	45	14	6	39
Linseed	21	6	30	2	2	80	130	16	12	59	12	20
Ground nuts	3	1	42	2	1	39	24	5	20	1	1	43
Sufflower	-	-	-	-	-	-	5	4	74	-	-	-
Sesame	37	22	61	7	5	72	27	8	32	211	104	49
Rapeseed	-	-	78	-	-	80	52	34	66	2	1	72
Other Grains	15	7	51	15	4	29	147	29	20	45	20	44
Vegetables	174	45	26	520	94	18	1028	130	13	352	46	13
Lettuce	9	4	40	34	13	39	31	13	41	2	1	30
Head cabbage	3	2	50	22	5	24	16	5	30	10	4	35
Kale	20	7	33	101	39	39	303	71	23	52	27	52
Tomatoes	70	26	37	221	32	14	192	32	17	205	33	16
Green peppers	1	-	56	22	4	20	16	4	23	13	4	30
Red peppers	21	6	26	29	4	13	379	71	19	67	14	20
Swiss chard	44	26	60	81	43	53	72	43	59	2	1	31
Others	5	3	74	10	7	68	18	10	55	1	1	85
Root Crops	316	168	53	776	218	28	1705	247	14	665	131	20
Beet root	11	6	61	14	7	47	14	7	46	3	2	70
Carrot	151	133	88	204	157	77	203	158	78	9	4	47
Onions	109	25	23	389	54	14	494	59	12	279	29	10
Potatoes	25	10	39	135	19	14	518	95	18	190	92	49
Garlic	6	2	36	14	4	29	31	9	27	4	2	44
Taro ('Godere')	1	-	48	6	4	68	155	29	19	-	-	57
Sweet potatoes	13	2	15	13	2	17	247	56	23	175	88	50
Others	-	-	94	1	-	52	43	19	43	4	4	83
Permanent Crops	1809	442	24	1804	185	10	5433	439	8	511	84	16
Fruit Crops	167	36	22	550	89	16	720	113	16	90	21	23
Avocado	32	14	42	58	30	52	252	87	34	-	-	55
Bananas	38	25	66	163	49	30	190	38	20	17	6	36
Guava (Zeytuna)	8	4	45	66	11	17	27	7	25	1	-	50
Lemons	6	3	50	38	17	44	22	16	71	10	6	56
Mangoes	19	7	34	57	7	12	85	11	13	6	2	28
Oranges	26	15	58	42	6	14	36	4	12	7	2	33
Papayas	24	6	26	104	25	24	80	16	20	39	14	37
Pineapples	-	-	87	-	-	70	-	-	61	-	-	68
Others	12	8	68	22	5	24	28	5	19	10	4	43
Stimulant Crops	1600	440	27	762	76	10	2268	268	12	397	79	20
Chat	-	-	-	346	55	16	524	72	14	218	57	26
Coffee	1592	440	28	316	26	8	1489	248	17	101	13	13
Hops	8	4	49	100	15	15	254	59	23	78	53	67
Others	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent Crops	43	7	17	492	84	17	2445	226	9	24	4	15
Enset	35	7	20	151	43	28	2073	116	6	8	2	19
Sugar Cane	7	2	34	326	72	22	365	194	53	15	3	21
Others	1	1	69	15	9	58	7	1	20	1	1	89