

CHAPTER VI

FARM MANAGEMENT PRACTICES

1 INTRODUCTION

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

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

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

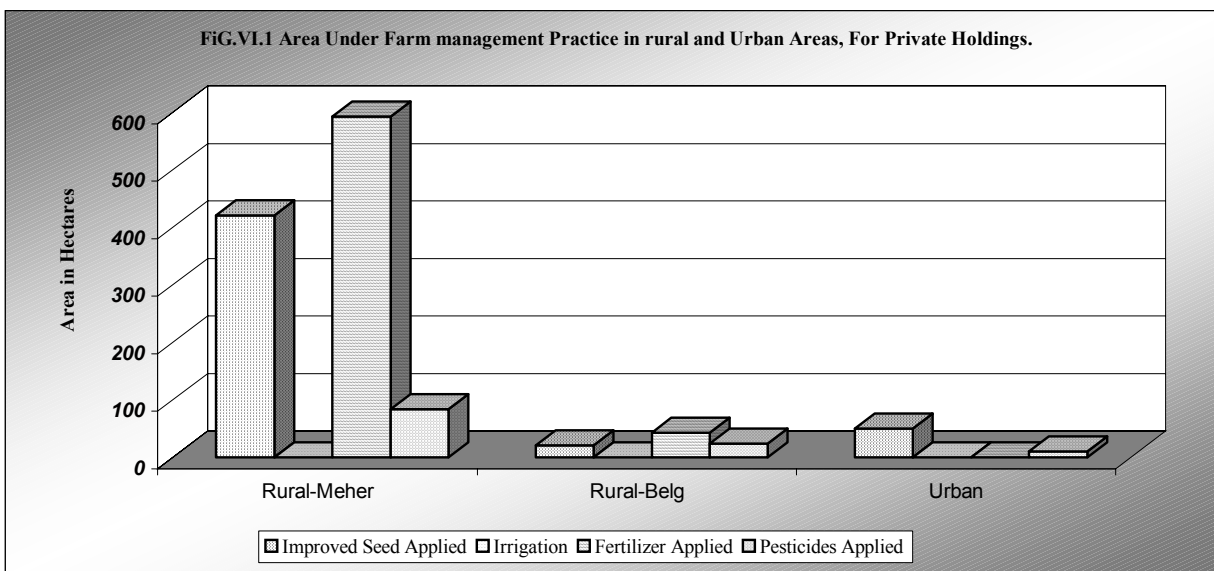
As a result, increasing productivity on various field crops is the only realistic option to raise the living standards of the rural population, and to ensure food security and poverty alleviation. There are many modern techniques and technologies of achieving enhanced crop productivity. Accordingly,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

In general, this chapter deals with the agricultural census data that indicates the type of inputs applied, quantity of inputs applied, the irrigated cropland area, estimates of cropland area damage, number of holders who applied different agricultural inputs and farm management practices, and number of holders covered by extension package programs in Gambela Region. Data are presented for private holdings in rural areas for both Meher and Belg seasons, and urban areas of holdings for Meher season. For urban areas, data are collected and presented only to the inputs applied and the irrigated cropland area and number of holders who applied farm inputs. Moreover, estimates, standard errors (S.E) and coefficient of variation (C.V) are given in Annex Tables 6.1 and 6.2.

2 CROPLAND AREA UNDER AGRICULTURAL INPUTS AND FARM MANAGEMENT PRACTICES

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

The census data show that Gambela Region predominantly produces grain crops and the major crops either in terms of the magnitude of area and volume of production includes maize, sorghum and sesame, that accounted for about 71.27% of the area cultivated under all crops (Summary Table VI.2). On the other hand, vegetables and root crops are not widely grown as grains in the region particularly in terms of crop area coverage. As a result, the agricultural inputs were applied to a great extent on the area under grain crops in order to increase the volume of production. Among different types of agricultural inputs that were applied, it is found that fertilizers application had relatively high coverage of area under crops. Moreover, the census data indicate that vast majority of agricultural holders have used agricultural inputs on small size of holdings. In general, the holders in the region as a whole have practiced modern agricultural techniques and technologies but in a much smaller extent.



2.1 Fertilized Cropland Areas

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

Although fertilizers are one of the very important agricultural inputs to increase the level of production, in Gambela Region fertilizers, were applied on only 648 hectares (3.91%) of the total cultivated cropland area. Of this total area fertilized cropland, the share of rural areas was found to be 98.15%. Moreover, the proportion of total fertilized cropland areas in rural areas for Meher season was 593 hectares (91.51%) as compared to only 43 hectares (6.64%) 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, 82.41% were under cereals, 0.77% under pulses, 2.78% under vegetables, 1.85% under root crops, and 1.24% under fruits 1.54 under

stimulants and 8.95 % under other permanent crops. Most of the fertilized cropland areas in the region were allotted to cereals in both rural and urban areas (See Summary Table VI.1).

With regard to a specific crop, maize is the most important fertilized crop that comprised an area of 71.96% of the total cropland area under fertilizers. The second important fertilized crop is sorghum covering 8.94% of the total cropland area under fertilizers. Enset ranks third taking up 8.63% of the total cropland area under fertilizers. For details, refer to Summary Table VI.2. Moreover, Fertilizer applied Crop land areas by zone for private holdings in rural and urban areas are presented in Summary Table VI.3. As can be seen from this table, the total fertilizer applied cropland areas differ from zone to zone. The census data indicate that Zone-2 has relatively the highest share from the total fertilizer applied cropland area i.e (90.60%) as compared to Zone-1, which is 33.64%.

2.2 Cropland Areas Treated with Pesticides

Pesticides are chemicals that are used for the control of mitigation or elimination of pests that are detrimental to crops. Examples of pesticides are insecticides, herbicides and fungicides. Summary Table VI.1 reveals that the total cropland area treated with pesticides was estimated to be 117 hectares. This indicates that less than one percent of the total cultivated cropland areas were treated with pesticides. Of the total cropland areas treated with pesticides, the share of rural and urban areas was found to be 92.31% and 8.55%, respectively. Thus, private holdings in rural areas had the highest share, while the contribution of the urban areas to the total pesticide applied cropland area was limited in scale. Moreover, the total pesticides applied cropland areas in rural areas of the region for Meher season was 71.79 percent as compared to only 20.51 percent for the Belg season.

Furthermore, most of the pesticide applied land areas in the region was under cereal crops (about 78.63%). Further more, out of all cropland areas on which pesticides are applied, maize accounts for about 84 hectares, which is the highest. For Details, see Summary Tables VI.1 and VI.2. Moreover, Crop land areas treated with pesticides by zone for private holdings in rural and urban areas are presented in Summary Table VI.3. As can be seen from this table, the total cropland areas treated with pesticides differ from zone to zone. The census data indicate that

Zone-2 has relatively the highest share from the total fertilizer applied cropland area i.e (66.36%) as compared to Zone-1, which is 10.26%.

2.3 Cropland Areas on which Improved Seeds are Used

Improved seeds are defined as crop varieties that give significantly higher yield and better quality compared to locally produced varieties of seeds. As illustrated in Summary Table VI.1, the total cultivated cropland area was estimated at 16580 hectares. Of this total, only 492 hectares (5.63% of the total crop land area) was sown with improved variety of seeds. The share of rural and urban areas was found to be 89.84 percent and 10.16 percent of the total cropland areas on which improved seeds are used, respectively. Like other inputs, the private holdings in the rural areas during Meher season had the highest share; while the contribution of the private holdings in urban areas to the total improved seeds applied cropland area in the region was limited in scale. The share of Belg season to the total improved seed applied cropland area is about 4.27% (See Fig VI.1)

Summary Table VI.1 also presents the total cropland area with application of improved agricultural practices and inputs by crop category for private holdings in rural and urban areas. The data in this table indicate that 44.72% and 53.86 % of the total area under improved seeds was reported to be under cereals and stimulants, respectively. While the remaining two percent of the land area on which improved seeds are applied was covered by coffee. In both the rural and urban areas of private holdings, land areas under cereals constituted the highest proportion of improved seeds as compared to other crops.

Moreover, Crop land areas under improved seeds by zone for private holdings in rural and urban areas are presented in Summary Table VI.3. As can be seen from this table, the total cropland area under each agricultural inputs show variation among the zones. The census data indicate that Zone-2 has relatively the highest share from the total cropland area with application of improved seeds (93.29%) as compared to Zone-1 which is 6.71%.

2.4 Cropland Areas Under Irrigation

The necessary increase in crop production, to keep pace with the increased population demand, can be achieved among others by the efficient utilization of Irrigation practices. Moreover irrigation practices make possible the full utilization of advanced technology in farming: these include the proper application of fertilizers, the adoption of good crop rotation practices and the use of best the best seed varieties.

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

The census data show that the cropland areas that are actually irrigated was only 17 hectares and this accounted for about less than one percent of the total cropland areas. Of course, the mentioned total irrigated cropland areas, was contributed from irrigation schem operated in the rural and urban areas. (See summary Tables VI.1 and VI.2).

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

In 2001/02 Agricultural Sample Enumeration, the total number of holders applying fertilizers in Gambela Regional State, is estimated to be about 3892. Of these total private holders, about 3862 holders (99.23%) were in rural and about 0.77% in urban areas. The application of fertilizers in Meher and Belg seasons for private holdings in rural areas shows a great variation, that is, 88% of the holders applied fertilizers in Meher season while only 15.39 perce0nt applied in Belg season (See Summary Tables VI.4).

With regard to the type of fertilizers applied, the great majority of holder's applied natural fertilizers (3750). When we come to the utilization of commercial fertilizers, about 239 holders applied DAP followed by a mixture of DAP and UREA (87 holders) and UREA (81 holders). However, the application of chemical fertilizers for Belg season was not reported in census enumeration. In urban areas for private holdings, a total of 30 holders applied natural and chemical fertilizers.

Among the types of fertilizers used, natural fertilizers was applied in larger cultivated cropland area, which is about 429 hectares (That is, 65% of fertilized cropland area). Next to natural fertilizers, considerable amount of cropland area was covered by DAP which is 120 hectares (18%) and a mixture of DAP and UREA was applied on 68 hectares (10%) (See Fig VI.2 and Summary Table VI.4 and VI.5)

Furthermore, the data in Summary Table VI.4 indicated that the total quantity of chemical fertilizers applied by holders in the rural areas was estimated at about 216 quintals, of which, the share of the mixture of DAP and UREA was the highest accounting for about 48 percent of the total quantity of chemical fertilizers applied. This is followed by DAP accounting for about 46 percent, while the share of UREA was the smallest (See Fig VI.3 and Summary Table VI.4).

Moreover, the total amount of Chemical fertilizers applied on crop land areas by zone is presented in Summary Table VI.9. The data in the table shows that the highest quantity of chemical fertilizers application was reported in Zone-2, 90.32% while almost none is reported in Zone-1.

3.1 Application of Natural Fertilizers in the Rural and Urban Areas

According to the census findings, about 3598 holders in rural areas were applied natural fertilizers on 429 hectares of cropland (comprising 66.10% of the total fertilized land area). Of the total cropland area on which natural fertilizers are applied, the share of Meher and Belg season in rural areas was 59.17 and 6.63 percent, respectively. Moreover, of the total land area on which natural fertilizers are applied 74.59% was under cereals, 1.17% under pulses, 3.50% under vegetables, 2.80% under root crops and 1.64% under fruits and 13.52% under other permanent crops. For details, refer to Summary Tables VI.4 .

3.2 Application of DAP in the Rural Areas

As illustrated in Summary Table VI.4, about 239 holders in rural areas have applied DAP on about 120 hectares, which is about 18% of the total fertilized crop land area. Crop land area under the application of DAP varied markedly from one group of crops to another, i.e., 98% of the total DAP was applied for cereals, while the remaining two percent was applied on pulses

and oil seeds crop categories. Variations with respect to specific crops are also considerable, i.e., relatively higher for maize(For details, refer to Summary Tables VI.4 and VI.5).

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

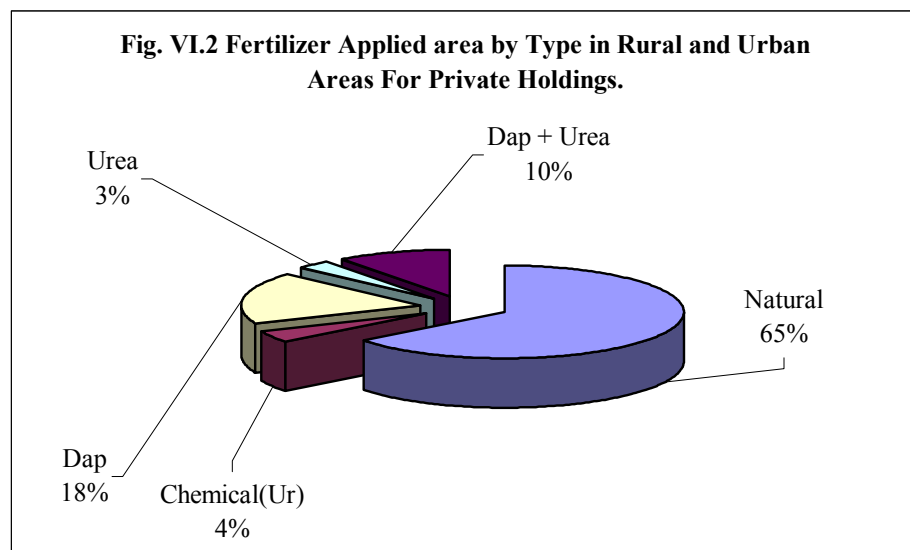
ITEM	Area in Hectares									
	Total	Grains				Vegetables	Root Crops	Permanent Crops		
		Cereals	Pulses	Oilseeds	Others			Fruits	Stimulant	Other
Total Area										
Rural and Urban ..	16580	11036	225	389	166	615	384	370	2926	470
Rural	15671	10659	225	366	142	611	380	361	2463	465
Meher.....	12684	7877	117	345	132	562	363	361	2463	465
Belg.....	2988	2783	108	21	10	49	16	*	*	*
Urban (Meher)	909	377	1	23	24	4	4	9	463	5
Improved Seeds										
Rural and Urban ..	492	220	*	*	*	*	*	*	265	*
Percent..	100	44.72	*	*	*	*	*	*	53.86	*
Rural	442	208	*	*	*	*	*	*	227	*
Percent..	89.84	47.06	*	*	*	*	*	*	51.36	*
Meher.....	421	188	*	*	*	*	*	*	227	*
Percent..	85.57	44.66	*	*	*	*	*	*	53.92	*
Belg.....	21	21	-	-	-	-	-	-	-	-
Percent..	4.27	100.00	-	-	-	-	-	-	-	-
Urban (Meher)	50	*	*	*	*	*	*	*	38	*
Percent..	10.16	*	*	*	*	*	*	*	76.00	*
Irrigation										
Rural and Urban ..	17	*	-	*	*	*	*	*	*	*
Percent..	100.00	*	-	*	*	*	*	*	*	*
Rural	*	*	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Meher.....	*	1	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Belg.....	*	*	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Urban (Meher)	*	*	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Fertilizer										
Rural and Urban ..	648	534	5	*	*	18	12	8	10	58
Percent..	100.00	82.41	0.77	*	*	2.78	1.85	1.23	1.54	8.95
Rural	636	522	5	*	*	18	12	8	10	58
Percent..	98.15	82.08	0.79	*	*	2.83	1.89	1.26	1.57	9.12
Meher.....	593	480	5	*	*	17	12	8	10	58
Percent..	91.51	80.94	0.84	*	*	2.87	2.02	1.35	1.69	9.78
Belg.....	43	42	*	*	*	*	*	*	*	*
Percent..	6.64	97.67	*	*	*	*	*	*	*	*
Urban (Meher)	*	*	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Pesticides										
Rural and Urban ..	117	92	*	*	*	*	*	*	*	*
Percent..	100.00	78.63	*	*	*	*	*	*	*	*
Rural	108	83	*	*	*	*	*	*	*	*
Percent..	92.31	76.85	*	*	*	*	*	*	*	*
Meher.....	84	59	*	*	*	*	*	*	*	*
Percent..	71.79	70.24	*	*	*	*	*	*	*	*
Belg.....	24	24	*	*	*	*	*	*	*	*
Percent..	20.51	100.00	-	-	-	-	-	-	-	-
Urban (Meher)	10	9	*	-	*	-	-	-	-	-
Percent..	8.55	90.00	*	-	*	-	-	-	-	-

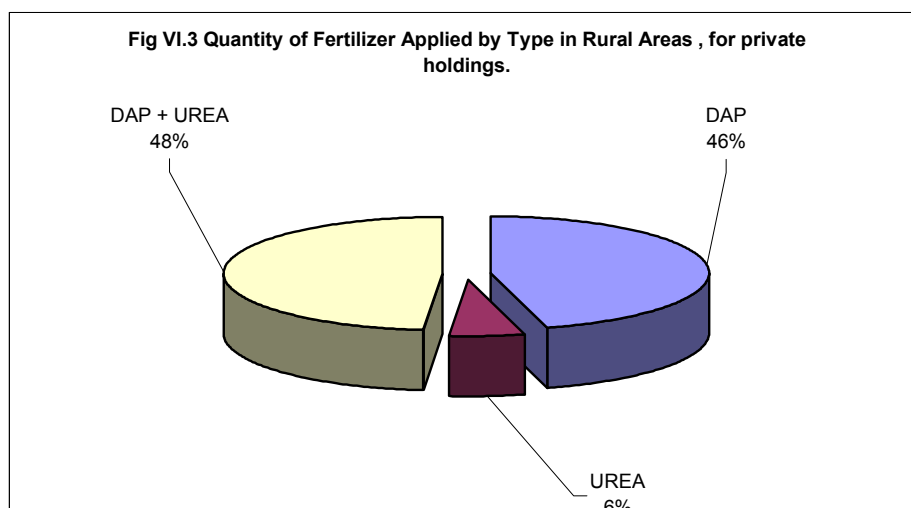
**SUMMARY TABLE VI.2: Total Area Under Improved Seed, Irrigation, Fertilizer, and Pesticide
by Type of Crops in Rural and Urban Areas, for Private Holdings**

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	16580	492	2.97	17	0.1	648	3.91	117	0.71
Grain Crops	11816	223	1.89	*	*	542	4.59	112	0.95
Cereals	11036	220	1.99	*	*	533	4.83	92	0.83
Teff	5	-	-	-	-	-	-	-	-
Barley	9	-	-	-	-	-	-	-	-
Wheat	*	-	-	-	-	-	-	-	-
Maize	8142	171	2.1	*	*	467	5.74	84	1.03
Sorghum	2785	42	1.51	*	*	58	2.08	*	*
Finger millet	55	*	*	-	-	*	*	-	-
Oats ('Aja')	*	-	-	-	-	-	-	-	-
Rice	39	*	*	-	-	*	*	*	*
Pulses	225	*	*	-	-	5	2.22	*	*
Horse beans	*	-	-	-	-	*	*	-	-
Field peas	*	-	-	-	-	-	-	-	-
Haricot beans	221	*	*	-	-	5	2.26	*	*
Chick peas	*	-	-	-	-	-	-	-	-
Lentils	*	-	-	-	-	-	-	-	-
Vetch	*	-	-	-	-	*	*	-	-
Soya	*	-	-	-	-	-	-	-	-
Fenugreek	*	-	-	-	-	*	*	-	-
Gibto	*	-	-	-	-	*	*	-	-
Oil Seeds	389	*	*	*	*	*	*	*	*
Neug	*	-	-	-	-	-	-	-	-
Linseed	*	*	*	*	*	*	*	*	*
Ground nuts	43	*	*	-	-	*	*	*	*
Sufflower	1	-	-	-	-	-	-	-	-
Sesame	340	*	*	-	-	*	*	*	*
Rapeseed	*	*	*	-	-	-	-	-	-
Other Grains	166	*	*	-	-	*	*	*	*
Vegetables	615	*	*	*	*	18	2.93	*	*
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	*	-	-	-	-	-	-	-	-
Kale	31	-	-	-	-	5	16.13	-	-
Tomatoes	11	*	*	*	*	*	*	*	*
Green peppers	6	-	-	-	-	*	*	-	-
Red peppers	20	-	-	-	-	*	*	-	-
Swiss chard	*	-	-	-	-	-	-	-	-
Others	546	-	-	-	-	11	2.01	*	*
Root Crops	384	*	*	*	*	12	3.13	*	*
Beet root	*	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	*	-	-	-	-	*	*	*	*
Potatoes	4	-	-	-	-	-	-	-	-
Garlic	1	-	-	-	-	*	*	-	-
Taro	232	-	-	*	*	8	3.45	-	-
Sweet potatoes	112	-	-	-	-	5	4.46	*	*
Others	35	*	*	-	-	*	*	*	*
Permanent Crops	3765	269	7.14	*	*	76	2.02	*	*
Fruit Crops	370	*	*	*	*	8	2.16	*	*
Avocado	5	*	*	-	-	*	*	*	*
Bananas	183	*	*	*	*	3	1.64	-	-
Guava	4	*	*	-	-	-	-	-	-
Lemons	4	-	-	-	-	*	*	-	-
Mangoes	108	*	*	*	*	2	1.85	*	*
Oranges	10	*	*	-	-	*	*	-	-
Papayas	53	*	*	*	*	2	3.77	*	*
Pineapples	2	-	-	-	-	-	-	-	-
Others	1	-	-	-	-	*	*	-	-
Stimulant Crops	2926	265	9.06	*	*	10	0.34	-	-
Chat	38	-	-	-	-	*	*	-	-
Coffee	2874	265	9.22	*	*	10	0.35	-	-
Hops	14	-	-	-	-	*	*	-	-
Others	-	-	-	-	-	-	-	-	-
Other Permanent	470	*	*	*	*	58	12.34	*	*
Enset	393	-	-	-	-	56	14.25	-	-
Sugar Cane ...	73	*	*	*	*	2	2.74	*	*
Others	4	-	-	-	-	*	*	-	-

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

Practices	Area under Agricultural Inputs and Irrigation in Hectares							
	Rural and Urban	Percent	Rural Meher	Rural Belg	Rural	Percent	Urban Meher	Percent
Gambela Region								
Irrigation.....	17	100	*	*	*	100	*	*
Improved Seeds.....	492	100	421	21	442	100	50	100
Pesticides.....	117	100	84	24	108	100	10	100
Fertilizers	648	100	593	43	636	100	*	*
Zone 1								
Irrigation.....	*	*	*	-	1	12.50	*	77.78
Improved Seeds.....	33	6.71	*	13	21	4.75	*	24.00
Pesticides.....	12	10.26	*	-	2	1.85	9	90.00
Fertilizers	218	33.64	210	-	210	33.02	*	69.23
Zone 2								
Irrigation.....	*	*	*	*	*	87.50	*	22.22
Improved Seeds.....	459	93.29	413	*	421	95.25	38	76.00
Pesticides.....	106	90.60	81	24	105	97.22	*	*
Fertilizers	430	66.36	383	43	426	66.98	*	30.77





Furthermore, the total quantity of DAP applied in rural areas is estimated to be about 99 quintals, which is 45.83% of the total quantity of chemical fertilizers applied. In general, the quantity of DAP applied was the highest for cereals.

3.3 Application of UREA in the Rural Areas

Although chemical fertilizers have been widely promoted, only 81 holders in rural areas have applied UREA, and the cropland areas under UREA occupied 21 hectares, which is 3.24% of the total fertilizers applied (See Summary Table 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 have applied a mixture of DAP and UREA on their crop fields. As presented in Summary Table VI.6 there were about 87 holders in rural areas who applied a mixture of DAP and UREA on 68 hectares, which is 10.48% of the total area on which fertilizers were applied. The application of a mixture of DAP and UREA to cereals covered 68 hectares. It was observed that the application of a mixture of UREA and DAP is almost non in other crops relative to cereals.

In addition, out of the total quantity of chemical fertilizers applied, the amount of a mixture of DAP and UREA was 105 quintals, which is 48.61% of the total quantity of chemical fertilizers. Of the total quantity of the mixed chemical fertilizers are applied, maize took the highest proportion accounting for almost 100% (105 quintals). For details, refer to Summary Tables VI.4 and VI.5.

4 HOLDERS UTILIZING IMPROVED SEEDS AND QUANTITY OF IMPROVED SEEDS USED

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

Furthermore, the total amount of improved seeds used by zone is presented in Summary Table VI.7. The data in the table shows that the highest quantity of improved seeds was reported in Zone-2, 90.32% while it was 9.68 in Zone-1.

4.1 Number of Holders using Improved Seeds.

As portrayed in Summary Table VI.6 the use of improved seeds is limited to only 1849 holders in rural and 87 holders in urban areas of the region. Of the total holders using improved seeds, 40.02% utilized improved teff seed, 33.48% improved sorghum seed, 10.06% improved finger millet seed, and 2.70% utilized improved variety of chick pease seeds.

4.2 Quantity of Improved Seeds Used

Information on quantity of improved varieties of seeds is limited to grain crops only. As can be seen from Summary Table VI.6, the total quantity of improved seeds was estimated to be 62 quintals. The total quantity of improved seeds used has been low for private holdings in rural areas of the region. As can be seen from the data, the low utilization of improved seeds is obviously indicates that holders' continued to rely on low yielding local/traditional seeds.

**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	3892	648	3602	428	239	120	99
Grain Crops	2494	542	2230	328	199	117	98
Cereals	2345	533	2080	319	199	117	98
Teff	-	-	-	-	-	-	-
Barley.....	-	-	-	-	-	-	-
Wheat.....	-	-	-	-	-	-	-
Maize	2224	467	1970	282	183	92	84
Sorghum.....	224	58	199	37	*	*	*
Finger millet	*	*	*	*	-	-	-
Oats ('Aja').....	-	-	-	-	-	-	-
Rice	34	*	-	-	34	*	*
Pulses.....	297	5	293	5	-	-	-
Horse beans.....	*	*	*	*	-	-	-
Field peas	*	*	*	*	-	-	-
Haricot beans	224	5	220	5	-	-	-
Chick peas.....	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	*	*	*	*	-	-	-
Soya	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	-	-	-
Gibto	*	*	*	*	-	-	-
Oil Seeds	24	*	18	*	-	-	-
Neug.....	-	-	-	-	-	-	-
Linseed.....	*	*	-	-	-	-	-
Ground nuts	*	*	*	*	-	-	-
Sufflower	-	-	-	-	-	-	-
Sesame	*	*	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-
Other Grains	62	*	62	*	-	-	-
Vegetables	1007	18	973	15	*	*	*
Lettuce	-	-	-	-	-	-	-
Head cabbage.....	-	-	-	-	-	-	-
Kale.....	576	5	576	5	-	-	-
Tomatoes.....	92	*	87	*	*	*	*
Green peppers.....	74	*	64	*	*	*	*
Red peppers	57	*	57	*	-	-	-
Swiss chard	-	-	-	-	-	-	-
Others.....	332	11	303	8	*	*	*
Root Crops	725	12	712	12	*	*	*
Beet root.....	-	-	-	-	-	-	-
Carrot	*	*	*	*	-	-	-
Onions.....	*	*	*	*	-	-	-
Potatoes.....	-	-	-	-	-	-	-
Garlic	*	*	*	*	-	-	-
Taro ('Godere')..	439	8	439	8	-	-	-
Sweet potatoes	189	5	180	4	*	*	*
Others.....	*	*	*	*	-	-	-
Permanent Crops.....	1643	76	1561	73	*	*	*
Fruit Crops	798	8	735	7	*	*	*
Avocado	*	*	*	*	-	-	-
Bananas.....	313	3	297	3	*	*	*
Guava (Zeytuna)	*	*	*	*	-	-	-
Lemons	*	*	*	*	-	-	-
Mangoes.....	300	2	282	2	*	*	*
Oranges	*	*	*	*	-	-	-
Papayas	449	2	412	*	*	*	*
Pineapples.....	*	*	*	*	-	-	-
Others.....	*	*	*	*	-	-	-
Stimulant Crops.....	324	10	304	*	-	-	-
Chat.....	*	*	*	*	-	-	-
Coffee	220	10	201	*	-	-	-
Hops	*	*	*	*	-	-	-
Others.....	-	-	-	-	-	-	-
Other Permanent	939	58	939	58	-	-	-
Enset	805	56	805	56	-	-	-
Sugar Cane.....	355	2	355	2	-	-	-
Others.....	118	*	118	*	-	-	-

SUMMARY TABLE VI.5 Contd.

CROP	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical - DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
TOTAL	81	21	*	87	68	105	26	*
Grain Crops	50	*	*	87	68	105	21	*
Cereals	50	*	*	83	68	105	21	*
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	50	*	*	83	68	105	21	*
Sorghum	-	-	-	-	-	-	*	*
Finger millet	-	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulses	-	-	-	*	*	-	-	-
Horse beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	*	*	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-	*	*
Neug	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	*	*
Ground nuts	-	-	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-
Vegetables	-	-	-	*	*	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Kale	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Others	-	-	-	*	*	-	-	-
Root Crops	*	*	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onions	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Others	*	*	-	-	-	-	-	-
Permanent Crops	42	*	*	-	-	-	*	*
Fruit Crops	*	*	*	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	*	*	*	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	*	*	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Stimulant Crops	*	*	-	-	-	-	*	*
Chat	-	-	-	-	-	-	-	-
Coffee	*	*	-	-	-	-	*	*
Hops	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-

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.....	1849	100	1661	106	87	62	100	58	*
Cereals.....	805	43.54	662	106	37	62	100	58	*
Teff.....	740	40.02	602	100	37	61	98.39	57	*
Barley.....	-	-	-	-	-	-	-	-	-
Wheat.....	-	-	-	-	-	-	-	-	-
Maize.....	-	-	-	-	-	-	-	-	-
Sorghum.....	619	33.48	481	100	37	45	72.58	41	*
Finger millet.....	186	10.06	180	-	*	9	14.52	9	-
Oats ('Aja').....	*	*	*	-	-	-	-	-	-
Rice.....	-	-	-	-	-	-	-	-	-
Pulses.....	*	*	*	-	-	*	*	*	-
Horse beans.....	50	2.70	50	-	-	*	*	*	-
Field peas.....	-	-	-	-	-	-	-	-	-
Haricot beans.....	-	-	-	-	-	-	-	-	-
Chick peas.....	50	2.70	50	-	-	*	*	*	-
Lentils.....	-	-	-	-	-	-	-	-	-
Vetch.....	-	-	-	-	-	-	-	-	-
Soya.....	-	-	-	-	-	-	-	-	-
Fenugreek.....	-	-	-	-	-	-	-	-	-
Oil Seeds.....	-	-	-	-	-	-	-	-	-
Neug.....	*	*	*	*	-	*	*	*	*
Linseed.....	-	-	-	-	*	-	-	-	-
Ground nuts.....	*	*	-	-	-	-	-	-	-
Sufflower.....	*	*	*	-	*	*	*	*	-
Sesame.....	-	-	-	-	*	-	-	-	-
Rapeseed.....	*	*	-	*	-	*	*	*	*
Other Grains.....	*	*	*	-	-	*	*	*	-
Vegetables.....	*	*	*	-	-	-	-	-	-
Lettuce.....	*	*	*	-	-	-	-	-	-
Head cabbage.....	-	-	-	-	-	-	-	-	-
Kale.....	-	-	-	-	-	-	-	-	-
Tomatoes.....	-	-	-	-	-	-	-	-	-
Green peppers.....	*	*	*	-	-	-	-	-	-
Red peppers.....	-	-	-	-	-	-	-	-	-
Swiss chard.....	-	-	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-	-
Root Crops.....	-	-	-	-	-	-	-	-	-
Beet root.....	*	*	*	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-	-	-	-
Onions.....	-	-	-	-	-	-	-	-	-
Potatoes.....	-	-	-	-	-	-	-	-	-
Garlic.....	-	-	-	-	-	-	-	-	-
Taro ('Godere').....	-	-	-	-	-	-	-	-	-
Sweet potatoes.....	-	-	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-	-
Fruit Crops.....	*	*	*	-	-	-	-	-	-
Avocado.....	181	9.79	181	106	-	-	-	-	*
Bananas.....	45	2.43	45	106	50	-	-	-	*
Guava (Zeytuna).....	*	*	*	100	-	-	-	-	*
Lemons.....	*	*	*	-	-	-	-	-	-
Mangoes.....	-	-	-	-	-	-	-	-	-
Oranges.....	*	*	*	-	-	-	-	-	-
Papayas.....	*	*	*	100	-	-	-	-	*
Pineapples.....	30	1.62	30	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-	-
Stimulant Crops.....	-	-	-	-	-	-	-	-	-
Chat.....	-	-	-	-	-	-	-	-	-
Coffee.....	878	47.49	828	-	-	-	-	-	-
Other Permanent Crops.....	-	-	-	-	50	-	-	-	-

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

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

Item	Quantity in Quintals		
	Total	Zone -1	Zone -2
Chemical Fertilizers			
Total	216	*	204
Percent	100	*	94.44
Meher	216	*	204
Belg	-	-	-
Improved seeds			
Total	62	6	56
Percent	100	9.68	90.32
Meher	58	*	55
Percent	100	*	94.8
Belg	*	*	-
Percent	*	*	-

Considering the total quantity of improved seeds utilized, about 72.58% accounted for sorghum followed by finger millet with 14.82%. Details are given in Summary Table VI.6

5 FARM MANAGEMENT PRACTICES AND EDUCATIONAL ATTAINMENT OF HOLDERS

This section of the report presents data on educational attainment of holders in relation to their farm management practices. At the time of enumeration all holders in the sampled households were asked to state their educational attainment. As presented in Summary Table VI.8 data on literacy status and highest grade completed for literate holders were collected.

The census findings indicate that the level of educational attainment of the holders in Gambela Region 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. A large number of holders (62.06% in rural and 53.76 % in urban areas) were found to be illiterate while 4.01% in rural and 3.60% in urban areas have participated in informal education. Moreover, the data shows that 25.12% of the holders in rural and 14.71% of holders in urban areas have completed grades 1 to 6 and only 8.13% of the holders in rural and 25.02 % in urban areas have completed grades 7-12.

Furthermore, around 0.67% of the holders in rural and 2.98% in urban areas had completed an educational level of above grade 12 (i.e. college/university). These estimates show that

holders in urban areas are relatively more literate than those in the rural areas. This could probably be attributed to better access to school and/or better awareness of the importance of education among the holders in the urban than those in the rural areas.

Extension packages are outreach programs operating in rural areas for private holdings aiming to transfer modern agricultural technologies to increase crop and livestock productivity. The programs are usually undertaken by follow-up and advisory services by the agricultural development agents. The total number of holders participating in the agricultural extension package programs was 275, which is only less than one percent of the total holders in the region. Of the total holders participating in the extension programs, 245 holders were in Meher season and 30 holders were in Belg season. The distribution of extension package program participants by educational status shows that 23.64% were illiterate, 3.64% have participated in informal education, 58.55% have completed grades 1 to 6 and 6.55% have completed grades 7-12 and 7.64% 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, 46.51, 36.72, 59.53 and 44.94 percents were illiterate, respectively (For details, refer to Summary Table VI.8).

Furthermore, in each zone, the proportions of the total holders who have applied fertilizers were the highest as compared to other inputs and irrigation. Thus, fertilizers are the most important input and used by 2760 holders (70.91%) and 1132(29.09) in Zone-2 and Zone-1 respectively. The second most widely used input was improved seeds and used by 843 holders (87.90%) in Zone-2, while 201holders i.e. about 10.87% in zone-1. For details, refer to Summary Table VI.9.

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

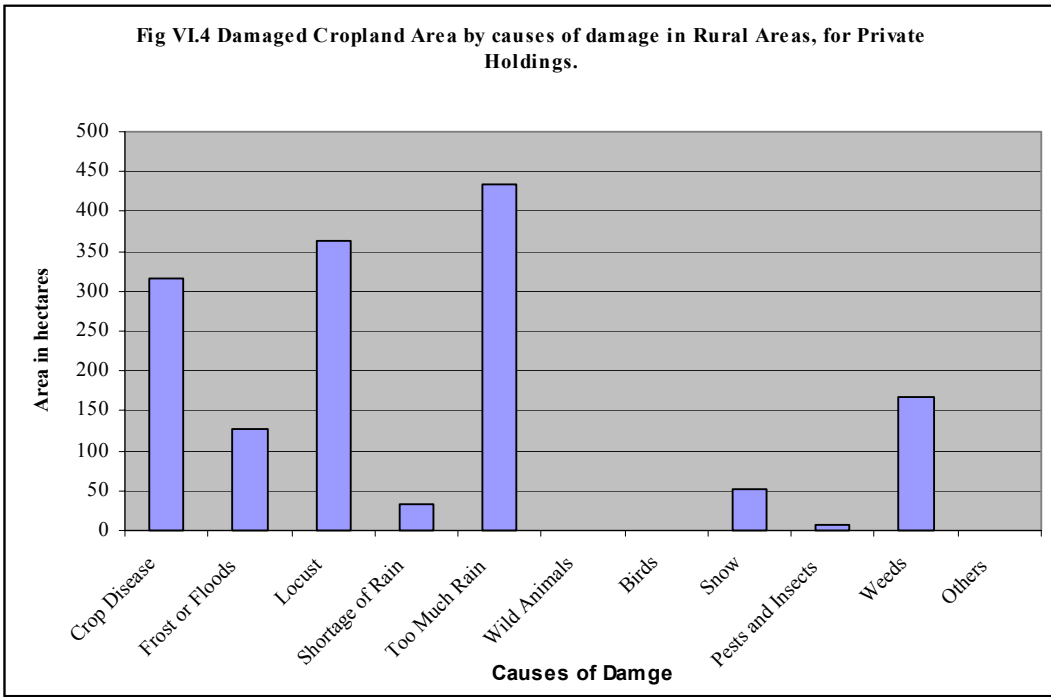
Place of Residence/Season	Total		Educational Level of Holder									
			Illiterate		Literate, but no Formal Education		Grade 1 - 6		Grade 7 – 12		Above Grade 12	
	Numb	%	Number	%	Numbe	%	Numbe	%	Number	%	Number	%
All Crop Holders												
Rural and Urban	31,109	100	19,173	61.63	1,241	3.99	7,648	24.58	2,800	9.00	247	0.79
Rural	29,497	100	18,307	62.06	1,184	4.01	7,411	25.12	2,397	8.13	199	0.67
Meher	29,188	100	18,111	62.05	1,180	4.04	7,318	25.07	2,384	8.17	195	0.67
Belg	14,474	100	7,759	53.61	848	5.86	4,523	31.25	1,275	8.81	69	0.48
Urban	1,611	100	866	53.76	58	3.60	237	14.71	403	25.02	48	2.98
Improved Seeds												
Rural and Urban	1,849	5.94	860	46.51	49	2.65	676	36.56	256	13.85	10	0.54
Rural	1,763	5.98	825	46.80	45	2.55	655	37.15	228	12.93	10	0.57
Meher	1,661	5.69	810	48.77	45	2.71	615	37.03	191	11.50	-	-
Belg	106	0.73	20	18.87	-	-	40	37.74	37	34.91	10	9.43
Urban	87	5.40	34	39.08	4	4.60	21	24.14	27	31.03	-	-
Irrigation												
Rural and Urban	128	0.41	47	36.72	-	-	42	32.81	39	30.47	-	-
Rural	113	0.38	42	37.17	-	-	42	37.17	29	25.66	-	-
Meher	99	0.34	42	42.42	-	-	42	42.42	15	15.15	-	-
Belg	14	0.10	-	-	-	-	-	-	14	100.00	-	-
Urban	15	0.93	5	33.33	-	-	-	-	10	66.67	-	-
Fertilizer												
Rural and Urban	3,892	12.51	2,317	59.53	109	2.80	1,065	27.36	357	9.17	44	1.13
Rural	3,862	13.09	2,303	59.63	109	2.82	1,060	27.45	346	8.96	44	1.14
Meher	3,431	11.75	2,085	60.77	76	2.22	949	27.66	277	8.07	44	1.28
Belg	599	4.14	311	51.92	45	7.51	160	26.71	84	14.02	-	-
Urban	30	1.86	14	46.67	-	-	5	16.67	11	36.67	-	-
Pesticides												
Rural and Urban	959	3.08	431	44.94	108	11.26	233	24.30	145	15.12	41	4.28
Rural	869	2.95	403	46.38	105	12.08	210	24.17	116	13.35	35	4.03
Meher	350	1.20	140	40.00	50	14.29	70	20.00	53	15.14	35	10.00
Belg	519	3.59	263	50.67	54	10.40	139	26.78	63	12.14	-	-
Urban	90	5.59	28	31.11	4	4.44	23	25.56	29	32.22	6	6.67
Extension Program												
Rural	275	0.93	65	23.64	10	3.64	161	58.55	18	6.55	21	7.64
Meher	245	0.84	61	24.90	10	4.08	157	64.08	14	5.71	3	1.22
Belg	30	0.21	4	13.33	-	-	4	13.33	4	13.33	18	60.00

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

Data Items	Number of Holders							
	Total	Percent	Rural Meher	Rural Belg	Rural	Percent	Urban Meher	Percent
Gambela Region								
Irrigation	128	100	99	*	113	100	*	100
Improved Seeds.....	1849	100	1661	106	1763	100	87	100
Pesticides.....	959	100	350	519	869	100	90	100
Fertilizers	3892	100	3431	599	3862	100	30	100
Zone 1								
Irrigation	63	49.22	52	-	52	46.02	*	*
Improved Seeds.....	201	10.87	127	37	164	9.30	37	42.53
Pesticides.....	116	12.10	*	-	*	*	85	94.44
Fertilizers	1132	29.09	1117	-	1117	28.92	*	*
Zone 2								
Irrigation	*	*	*	*	*	*	*	*
Improved Seeds.....	1648	89.13	1534	*	1599	90.70	50	57.47
Pesticides.....	843	87.90	319	519	838	96.43	*	*
Fertilizers	2760	70.91	2314	599	2745	71.08	*	*

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 Gambela Region. Cropland area damage includes any cropland planted or sown with intention to harvest crops, but failed to produce crop partly or fully due to various reasons. Out of the total cultivated cropland area, 11.17% in Meher and 3.01% in Belg seasons were affected by crop damage. The cropland area damage that accounted for 28.67% fall under holders in rural areas who had holding size that ranges from 1.01 and 2 hectares. On the other hand, holders in rural areas who had holding size of between 0.51 and 1 hectare accounted for 27.41% of the cropland area damage. With regard to the causes of crop damage, it is reported that 28.73% was damaged due to too much rain, 24.15% was caused by locust, 20.90% was due to crop disease, 11.08% was due to weeds (For details see Summary Table VI.10 and Fig VI.4).



7 FARM MANAGEMENT PRACTICES OF HOLDERS IN RURAL AREAS

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

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 is not extensive in Gambela Region. The census data reveals that of the total holder in the rural areas only 2.07% reported to have used irrigation practices. Among these

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

Cause of Damage	Size of Holding (Hectares)							
	Total	Under 0.1	0.1 – 0.5	0.51 – 1.0	1.01 – 2.0	2.01 – 5.00	5.01 – 10.0	Over 10
	Both Seasons							
Total	1507	23	337	413	432	275	*	-
Percent,,	100	1.53	22.36	27.41	28.67	18.25	*	-
Crop Disease	315	3	100	105	78	29	-	-
Percent..	20.90	0.95	31.75	33.33	24.76	9.21	-	-
Frost or Floods	127	*	31	29	47	17	*	-
Percent,,	8.43	*	24.41	22.83	37.01	13.39	*	-
Locust	364	6	73	109	105	70	*	-
Percent,,	24.15	1.65	20.05	29.95	28.85	19.23	*	-
Shortage of Rain	32	*	13	10	9	*	-	-
Percent,,	2.12	*	40.63	31.25	28.13	*	-	-
Too Much Rain	433	*	45	101	134	122	*	-
Percent,,	28.73	*	10.39	23.33	30.95	28.18	*	-
Wild Animals	*	-	-	*	*	*	-	-
Percent,,	*	-	-	*	*	*	-	-
Birds	-	-	-	-	-	-	-	-
Percent,,	-	-	-	-	-	-	-	-
Hailstone	53	*	15	11	10	*	-	-
Percent,,	3.52	-	28.30	20.75	18.87	*	-	-
Pests and Insects	6	-	*	2	-	*	-	-
Percent,,	0.40	-	*	33.33	-	*	-	-
Weeds	167	5	57	46	40	*	-	-
Percent,,	11.08	2.99	34.13	27.54	23.95	*	-	-
Others	1	*	*	*	*	*	-	-
Percent,,	0.07	*	*	*	*	*	-	-
Meher Season								
Total	1417	16	290	396	415	274	*	-
Crop Disease	298	3	93	103	71	29	-	-
Frost or Floods	126	*	30	29	47	17	*	-
Locust	353	5	68	106	104	70	*	-
Shortage of Rain	31	*	12	10	9	*	-	-
Too Much Rain	428	4	45	101	131	122	*	-
Wild Animals	*	-	-	*	*	*	-	-
Birds	-	-	-	-	-	-	-	-
Hailstone	53	*	15	11	10	*	-	-
Pests and Insects	6	-	*	2	-	*	-	-
Weeds	112	1	23	34	35	*	-	-
Others	*	-	*	*	*	*	-	-
Belg Season								
Total	90	15	64	*	*	-	-	-
Crop Disease	17	2	9	*	-	-	-	-
Frost or Floods	1	*	*	-	-	-	-	-
Locust	*	1	*	*	*	-	-	-
Shortage of Rain	*	-	*	-	-	-	-	-
	*	*	*	*	-	-	-	-
Wild Animals	-	-	-	-	-	-	-	-
Birds	-	-	-	-	-	-	-	-
Hailstone	-	-	-	-	-	-	-	-
Pests and Insects	-	-	-	-	-	-	-	-
Weeds	55	12	40	*	*	-	-	-
Others	1	*	*	-	-	-	-	-

holders who practice this scheme sources of water for 82.34% percent and 14.51 percent of the holders were rivers and lakes, respectively. Utilization of other sources of water for irrigation is limited in the region. It should be noted that data on the number of holders who practice irrigation schemes and the number of holders reporting the sources of water for irrigation were

collected in different period of time during the 2001/02 agricultural activities. In an enumeration area a total of 30 households were systematically sampled that mainly resulted a bout 30 holders. Thus, the data on number of holders practicing irrigation was collected in September (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 who have reported the use of irrigation practices presented in Summary Table VI.8 and VI.11.

During the 2001/02 EASE, an attempt has also been made to asses the extent of irrigation practice in urban areas. Thus, sources of water for irrigation under permanent crops in urban areas for Meher season have been assessed unfortunately the estimates are found unreliable (See Summary Table V1.12).

However, in the same summary table, out of the total crop holders, it is reported that only 343 holders (21.29 percent) in urban areas have practiced Belg crop production in the past three years prior to 2001/02 (1994 E.C.).

7.2 Methods Used to Improve Soil Fertility

The fertility of the soil in Ethiopia is being depleted slowly as time passes because of continuous cropping. In the census, holders were asked to state their method of improving soil fertility, that is whether they use crop rotation or burning of soil. Hence, the data showed that of the total holders about 36.04% have reported practicing crop rotation, while 2.21% 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, it was indicated that about 12.51% of the holders have applied both natural and chemical fertilizers. However, it was less than 1.29% of the total holders that applied chemical fertilizers. In order to gauge the attitude of holders who did not use chemical fertilizers, sampled households were asked the reasons for not using chemical fertilizers. The data in Summary Table VI.11, indicate that the majority of the holders did not use chemical fertilizers due to various reasons. A total of about 10256 holders which is the highest did not use chemical fertilizers due

to lack of knowledge about the advantage, about 3018 holders due to shortage of money, about 9559 holders due to insufficient supply of fertilizers in their area, about 359 holders due to the high cost of fertilizer, 376 holders reported suspecting the efficiency of the fertilizers and about 140 holders reported due to absence of credit service to purchase fertilizers, and about 9394 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 (91.95%) reported to have used hand digging method and 3.44% of the holders that used ox/horse driven ploughing methods. Besides, holders who used both hand dug and ox/horse driven methods are accounted for about 3.97%. On the other hand, none of the holders have used tractor-only for ploughing. This ascertained the fact that the use of a tractor for ploughing among the holders in the rural areas of the region is not common or does not exist.

7.5 Methods Used for Soil Conservation

According to the data in Summary Table VI.11, the majority of the holders reported using different methods of soil conservation. Of which, 1.3, 1,1.87 and 1.54 percent of holders have practiced plowing along the contour, water catchments, terracing and afforestation, respectively. Moreover, 3.29% of the total holders reported that they have other methods for soil conservation.

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

Extension packages are outreach programs operating in rural areas for private holdings aiming to transfer modern agricultural technologies to increase crop and livestock productivity. The programs are usually undertaken through close follow-up and advisory services by the agricultural development agents. A holder is said to be a participant of this program if and only if

he/she obtains agricultural advices, apply the recommended inputs and other related services such as close follow up by the extension agent, supervision by wereda and zonal agricultural bureaus...etc on a regular basis. The prevalence of different types of extension packages were assessed during the enumeration, these include, rain shortage areas package, rain abundant areas packages, post harvest technology packages, ...etc. Thus, the data showed that about 0.94% of the agricultural holders were covered by rain abundant areas extension packages while about 0.83% of the total agricultural holders were covered by rain shortage extension package. The total agricultural holders covered by all other types of extension packages listed in the table are insignificant. In response to why they have not been covered by these extension packages since the program started, holders reported the reasons as follows: 27.98% of the holders reported no knowledge about the advantage 4.09% reported shortage of money, 55.65% reported program not available, 3.15% were suspicious of its efficiency and 1.74% reported other reasons., and 4.41% reported not sufficient arable land available.

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 showed that about 7.6 percent of holders used agricultural credit services and about 1.06 percent of the holders have obtained advice on agricultural practices. This shows that the use of credit and advisory services were limited in scope.

7.7 SOURCES AND COST OF CHEMICAL FERTILIZERS.

As illustrated in Summary Table VI.13, it is estimated that a total of 259 holders (0.97%) reported “Government” as their major sources of chemical fertilizers, while about 49 holders (0.18%) private organization as their major sources of chemical fertilizers. Regardless of the source, the average cost was 264.07 Birr/Quintal for DAP and 196 Birr/Quintal for UREA.

8 USES OF CROP SPECIFIC EXTENSION PACKAGE PROGRAMS

Extension package is one of the means by which productivity improves and thereby food production increases. Moreover, Agricultural Development Agents (ADA) assist the peasants by

operating demonstration plots to provide information to agricultural holders on improved seed varieties, on use of fertilizers and pesticides, and improvements in production practices to increase yields. Further, advisory services are provided to holders to those who are willing to participate in the extension package programs.

8.1 Holders Participating in Crop Specific Extension Package Programs

In rural areas the distributions of holders participating in crop specific extension package programs are presented in Summary Tables VI.14. Accordingly, about 275 holders have been participating in crop specific package, that is, maize, by about 210 holders followed by sorghum by about 73 holders.

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
Total Crop Holders	26829	100
Source of Water for Irrigation		
Holders who Practice Irrigation	555	2.07
River	81	14.59
Lake	457	82.34
Pond	*	*
Other	-	-
Method to Improve Soil Fertility		
Crop Rotation	9668	36.04
Burning of Soil	594	2.21
Reason for Not Using Chemical Fertilizer		
Do Not Know Advantages	10256	
Too Expensive	359	
Shortage of Money	3018	
Insufficient Supply	9559	
No Credit Service	140	
Suspicious of Efficacy	376	
Other	9394	
Method of Plowing		
Hand Dug	24668	91.95
Ox/Horse Driven	923	3.44
Tractor	-	-
Hand Dug and Ox/Horse Driven	1065	3.97
Tractor and Ox/Horse Driven	58	0.22
Method of Soil Conservation		
Terracing	485	1.81
Water Catchments	269	1
Afforestation	414	1.54
Plowing Along the Contour	348	1.3
Others	883	3.29
All Holders	28463	100
Participation in Extension Package by Type		
Rain Shortage Areas Package	236	0.83
Rain Abundant Areas Package	268	0.94
Post Harvest Technology Package	-	-
Livestock Development Package	10	0.04
Economically Important Crops Package	84	0.3
Any Two or More Packages	*	*
Reason For Not Participating in Extension Packages		
Do Not Know the Advantages	7963	27.98
Shortage of Money	1164	4.09
Suspicious of Efficacy	896	3.15
Programs Not Available	15841	55.65
Not Sufficient Arable Land	1255	4.41
Others	494	1.74
Use of Credit or Advisory Services		
Credit Services	302	1.06
Advisory Services	2162	7.6

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

Sources of Water	Number of Holders	Percent
Those who Practice Irrigation in Meher Season (2001/02)		
Crop Holders.....	1611	100
Holders who Practice Irrigation Sources	*	*
River.....	*	*
Lake.....	-	-
Well.....	-	-
Tap Water.....	-	-
Others.....	-	-
Not Stated.....	-	-
Those who Practice Belg from 1999/2000 to 2001/02		
Crop Holders.....	1611	100
Holders who Practice Belg.....	343	21.29
Male.....	237	14.71
Female.....	106	6.58

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

Sources and Type of Fertilizers	Number of Holders	Percent
Crop Holders.....	26829	100
Sources		
Government.....	259	0.97
Private Organization	49	0.18
Traders.....	*	*
Others.....	*	*
Do not Buy.....	26310	98.07
Not Reported.....	191	0.71
Type of Fertilizers	Cost in Birr/Quintal	
DAP.....	264.07	
UREA.....	196	

8.2 Area Under Crop Specific Extension Package Programs

In the 2001/02 EASE, data on cropland area under extension package programs was collected. Thus, Summary Table VI.14 shows that a total of 83 hectares (0.50%) of the total cropland area was under extension package programs. Out of the total cropland area under extension package programs, 72.29% was observed under maize, followed by sorghum. As can be observed from the data in the table, most of this extension package programs were mainly

practiced in Meher season and the participation of holders in these programs are insignificant in Belg season. For details, see Summary Table VI.14

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

Ext. Package by Crop	Rural				Meher		Belg	
	Holder	%	Area	%	Holder	Area	Holder	Area
Total	275	100	83	100	245	81	*	*
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	210	76.36	60	72.29	181	58	*	*
Sorghum	73	26.55	*	*	73	*	-	-
Rice	*	*	*	*	*	*	-	-
Field peas	-	-	-	-	-	-	-	-
Haricot beans	*	*	*	*	*	*	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Sesame	*	*	*	*	*	*	-	-
Rapeseed	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-
Tomatoes	*	*	*	*	*	*	*	*
Red Papper	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Sweet potatoes	*	*	*	*	*	*	-	-
Enset	*	*	*	*	*	*	*	*
Other Permanent	-	-	-	-	-	-	-	-

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

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	15671	442	2.82	*	*	636	4.06	108	0.69
Grain Crops.....	11392	211	1.85	*	*	529	4.64	103	0.9
Cereals	10659	208	1.95	*	*	522	4.9	83	0.78
Teff	5	-	-	-	-	-	-	-	-
Barley.....	9	-	-	-	-	-	-	-	-
Wheat.....	*	-	-	-	-	-	-	-	-
Maize	7882	163	2.07	1	0.01	459	5.82	75	0.95
Sorghum.....	2667	39	1.46	*	*	54	2.02	*	*
Finger millet	55	*	*	-	-	*	*	-	-
Oats ('Aja')	*	-	-	-	-	-	-	-	-
Rice	39	*	*	-	-	*	*	*	*
Pulses	224	*	*	-	-	5	2.23	*	*
Horse beans.....	*	-	-	-	-	*	*	-	-
Field peas	*	-	-	-	-	*	*	-	-
Haricot beans	220	*	*	-	-	5	2.27	*	*
Chick peas.....	*	-	-	-	-	-	-	-	-
Lentils	*	-	-	-	-	-	-	-	-
Vetch.....	*	-	-	-	-	*	*	-	-
Soya	*	-	-	-	-	-	-	-	-
Fenugreek	*	-	-	-	-	*	*	-	-
Gibto	*	-	-	-	-	*	*	-	-
Oil Seeds	366	*	*	-	-	*	*	*	*
Neug.....	*	-	-	-	-	-	-	-	-
Linseed.....	*	-	-	-	-	-	-	-	-
Ground nuts	26	*	*	-	-	*	*	-	-
Sufflower	1	-	-	-	-	-	-	-	-
Sesame	335	*	*	-	-	*	*	*	*
Rapeseed.....	*	*	*	-	-	-	-	-	-
Other Grains	142	*	*	-	-	*	*	*	*
Vegetables	611	*	*	*	*	18	2.95	*	*
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage.....	*	-	-	-	-	-	-	-	-
Kale.....	31	-	-	-	-	5	16.13	-	-
Tomatoes	8	*	*	*	*	*	*	*	*
Green peppers.....	5	-	-	-	-	*	*	-	-
Red peppers	20	-	-	-	-	*	*	-	-
Swiss chard.....	*	-	-	-	-	-	-	-	-
Others.....	546	-	-	-	-	11	2.01	*	*
Root Crops.....	380	*	*	*	*	12	3.16	*	*
Beet root	*	-	-	-	-	-	-	-	-
Carrot	*	-	-	-	-	*	*	-	-
Onions.....	*	-	-	-	-	*	*	-	-
Potatoes	3	-	-	-	-	-	-	-	-
Garlic	1	-	-	-	-	*	*	-	-
Taro ('Godere')	232	-	-	*	*	8	3.45	-	-
Sweet potatoes.....	111	-	-	-	-	5	4.5	*	*
Others.....	33	*	*	-	-	*	*	*	*
Permanent Crops.....	3289	231	7.02	*	*	76	2.31	*	*
Fruit Crops.....	361	*	*	*	*	8	2.22	*	*
Avocado.....	4	*	*	-	-	*	*	*	*
Bananas.....	181	*	*	*	*	3	1.66	*	*
Guava (Zeytuna)	4	*	*	-	-	*	*	-	-
Lemons	4	-	-	-	-	*	*	-	-
Mangoes.....	105	*	*	*	*	2	1.9	*	*
Oranges	10	*	*	-	-	*	*	-	-
Papayas	51	*	*	*	*	2	3.92	*	*
Pineapples.....	2	-	-	-	-	*	*	-	-
Others.....	1	-	-	-	-	*	*	-	-
Stimulant Crops.....	2463	227	9.22	*	*	10	0.41	-	-
Chat.....	37	-	-	-	-	*	*	-	-
Coffee	2411	227	9.42	*	*	10	0.41	-	-
Hops	14	-	-	-	-	*	*	-	-
Others.....	-	-	-	-	-	-	-	-	-
Other Permanent Crops	465	*	*	*	*	58	12.47	*	*
Enset	393	-	-	-	-	56	14.25	-	-
Sugar Cane	68	*	*	*	*	2	2.94	*	*
Others	4	-	-	-	-	*	*	-	-

TABLE 6.1.1: RURAL MEHER

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	12684	421	3.32	*	*	593	4.68	84	0.66
Grain Crops.....	8470	190	2.24	1	0.01	487	5.75	79	0.93
Cereals	7877	188	2.39	1	0.01	480	6.09	59	0.75
Teff	5	-	-	-	-	-	-	-	-
Barley.....	9	-	-	-	-	-	-	-	-
Wheat.....	*	-	-	-	-	-	-	-	-
Maize	5110	143	2.8	1	0.02	418	8.18	52	1.02
Sorghum	2664	39	1.46	-	-	54	2.03	*	*
Finger millet	48	*	*	-	-	*	*	-	-
Oats ('Aja').....	*	-	-	-	-	-	-	-	-
Rice.....	39	*	*	-	-	*	*	*	*
Pulses	116	*	*	-	-	5	4.31	*	*
Horse beans	*	-	-	-	-	*	*	-	-
Field peas	*	-	-	-	-	*	*	-	-
Haricot beans.....	112	*	*	-	-	4	3.57	*	*
Chick peas	*	-	-	-	-	-	-	-	-
Lentils	*	-	-	-	-	-	-	-	-
Vetch.....	*	-	-	-	-	*	*	-	-
Soya	*	-	-	-	-	-	-	-	-
Fenugreek	*	-	-	-	-	*	*	-	-
Gibto	*	-	-	-	-	*	*	-	-
Oil Seeds	345	*	*	-	-	*	*	*	*
Neug.....	*	-	-	-	-	-	-	-	-
Linseed.....	*	-	-	-	-	-	-	-	-
Ground nuts	26	*	*	-	-	*	*	-	-
Safflower	1	-	-	-	-	-	-	-	-
Sesame	315	-	-	-	-	*	*	*	*
Rapeseed.....	*	*	*	-	-	-	-	-	-
Other Grains	132	*	*	-	-	*	*	-	-
Vegetables	562	*	*	*	*	17	3.02	*	*
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage.....	*	-	-	-	-	-	-	-	-
Kale.....	22	-	-	-	-	*	*	-	-
Tomatoes	8	*	*	*	*	*	*	*	*
Green peppers.....	5	-	-	-	-	*	*	-	-
Red peppers	20	-	-	-	-	*	*	-	-
Swiss chard.....	*	-	-	-	-	-	-	-	-
Others.....	506	-	-	-	-	11	2.17	*	*
Root Crops.....	363	*	*	*	*	12	3.31	*	*
Beet root	*	-	-	-	-	-	-	-	-
Carrot.....	*	-	-	-	-	*	*	-	-
Onions.....	*	-	-	-	-	*	*	-	-
Potatoes.....	*	-	-	-	-	-	-	-	-
Garlic	1	-	-	-	-	*	*	-	-
Taro ('Godere')	221	-	-	*	*	8	3.62	-	-
Sweet potatoes.....	108	-	-	-	-	4	3.7	*	*
Others.....	32	*	*	-	-	*	*	*	*
Permanent Crops.....	3289	231	7.02	*	*	76	2.31	*	*
Fruit Crops.....	361	*	*	*	*	8	2.22	*	*
Avocado	4	*	*	-	-	*	*	*	*
Bananas.....	181	*	*	*	*	3	1.66	*	*
Guava (Zeytuna)...	4	*	*	-	-	*	*	-	-
Lemons	4	-	-	-	-	*	*	-	-
Mangoes	105	*	*	*	*	2	1.9	*	*
Oranges	10	*	*	-	-	*	*	-	-
Papayas	51	*	*	*	*	2	3.92	*	*
Pineapples.....	2	-	-	-	-	*	*	-	-
Others.....	1	-	-	-	-	*	*	-	-
Stimulant Crops.....	2463	227	9.22	*	*	10	0.41	-	-
Chat.....	37	-	-	-	-	*	*	-	-
Coffee	2411	227	9.42	*	*	10	0.41	-	-
Hops	14	-	-	-	-	*	*	-	-
Others.....	-	-	-	-	-	-	-	-	-
Other Permanent Crops...	465	*	*	*	*	58	12.47	*	*
Enset	393	-	-	-	-	56	14.25	-	-
Sugar Cane.....	68	*	*	*	*	2	2.94	*	*
Others.....	4	-	-	-	-	*	*	-	-

TABLE 6.1.2: RURAL BELG

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	2987	21	0.7	*	*	43	1.44	24	0.8
Grain Crops	2922	21	0.72	*	*	42	1.44	24	0.82
Cereals	2783	21	0.75	*	*	42	1.51	23	0.83
Teff	*	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	2772	21	0.76	*	*	42	1.52	23	0.83
Sorghum	*	-	-	*	*	-	-	-	-
Finger millet	*	-	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	108	-	-	-	-	*	*	*	*
Horse beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
Haricot beans	108	-	-	-	-	*	*	*	*
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	*	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	21	*	*	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-
Linseed	*	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-	-
Sufflower	*	-	-	-	-	-	-	-	-
Sesame	21	*	*	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Other Grains	10	-	-	-	-	*	*	*	*
Vegetables	49	-	-	-	-	*	*	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	*	-	-	-	-	-	-	-	-
Kale	9	-	-	-	-	*	*	-	-
Tomatoes	*	-	-	-	-	-	-	-	-
Green peppers	*	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Others	39	-	-	-	-	*	*	-	-
Root Crops	16	-	-	-	-	*	*	-	-
Beet root	*	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	-	-	-	-	-	-	-	-	-
Potatoes	*	-	-	-	-	-	-	-	-
Garlic	*	-	-	-	-	-	-	-	-
Taro ('Godere')	11	-	-	-	-	*	*	-	-
Sweet potatoes	3	-	-	-	-	*	*	-	-
Others	*	-	-	-	-	-	-	-	-

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

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	909	50	5.5	*	*	*	*	10	1.1
Grain Crops	425	*	*	*	*	*	*	9	2.12
Cereals	377	*	*	*	*	*	*	9	2.39
Teff	-	-	-	-	-	-	-	-	-
Barley	*	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	260	8	3.08	*	*	*	*	9	3.46
Sorghum	117	*	*	*	*	*	*	*	*
Finger millet	*	-	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	1	-	-	-	-	-	-	-	-
Horse beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
Haricot beans	1	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	23	*	*	*	*	*	*	*	*
Neug	-	-	-	-	-	-	-	-	-
Linseed	1	*	*	*	*	*	*	*	*
Ground nuts	17	*	*	-	-	*	*	*	*
Sufflower	-	-	-	-	-	-	-	-	-
Sesame	5	-	-	-	-	*	*	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Other Grains	24	-	-	-	-	-	-	-	-
Vegetables	4	-	-	-	-	-	-	*	*
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Kale	*	-	-	-	-	-	-	-	-
Tomatoes	*	-	-	-	-	-	-	*	*
Green peppers	*	-	-	-	-	-	-	-	-
Red peppers	*	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Others	*	-	-	-	-	-	-	-	-
Root Crops	4	-	-	-	-	-	-	*	*
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	*	-	-	-	-	-	-	*	*
Potatoes	*	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro ('Godere')	*	-	-	-	-	-	-	-	-
Sweet potatoes	*	-	-	-	-	-	-	-	-
Others	2	-	-	-	-	-	-	*	*
Permanent Crops	476	38	7.98	*	*	*	*	*	*
Fruit Crops	9	-	-	-	-	-	-	*	*
Avocado	*	-	-	-	-	-	-	-	-
Bananas	2	-	-	-	-	-	-	-	-
Guava (Zeytuna) ..	*	-	-	-	-	-	-	-	-
Lemons	*	-	-	-	-	-	-	-	-
Mangoes	4	-	-	-	-	-	-	*	*
Oranges	*	-	-	-	-	-	-	-	-
Papayas	2	-	-	-	-	-	-	*	*
Pineapples	*	-	-	-	-	-	-	-	-
Others	*	-	-	-	-	-	-	-	-
Stimulant Crops	463	38	8.21	-	-	*	*	-	-
Chat	*	-	-	-	-	-	-	-	-
Coffee	462	38	8.23	-	-	*	*	-	-
Hops	*	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Other Permanent Crops ..	5	-	-	*	*	-	-	-	-
Enset	*	-	-	-	-	-	-	-	-
Sugar Cane	5	-	-	*	*	-	-	-	-
Others	-	-	-	-	-	-	-	-	-

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

Geographic Area	All Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	16580	492	2.97	17	0.1	648	3.91	117	0.71
ZONE 1	2929	33	1.13	*	*	218	7.44	12	0.41
Jikawo	1001	*	*	-	-	150	14.99	-	-
Itang	1080	9	0.83	1	0.09	55	5.09	*	*
Gambela	848	23	2.71	*	*	*	*	12	1.42
ZONE 2	13651	459	3.36	*	*	430	3.15	106	0.78
Abobo	2415	117	4.84	*	*	252	10.43	77	3.19
Jor	551	*	*	*	*	32	5.81	-	-
Gog	1564	50	3.2	-	-	*	*	*	*
Godare	9120	291	3.19	*	*	129	1.41	28	0.31

TABLE 6.3.1:RURAL HOLDINGS

Geographic Area	All Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	15671	442	2.82	*	*	636	4.06	108	0.69
ZONE 1	2700	21	0.78	1	0.04	210	7.78	*	*
Jikawo	1001	*	*	-	-	150	14.99	-	-
Itang	973	*	*	1	0.1	55	5.65	*	*
Gambela	726	14	1.93	*	*	*	*	*	*
ZONE 2	12971	421	3.25	*	*	426	3.28	105	0.81
Abobo	2415	117	4.84	*	*	252	10.43	77	3.19
Jor	551	*	*	*	*	32	5.81	-	-
Gog	1527	50	3.27	-	-	*	*	*	*
Godare	8477	253	2.98	*	*	127	1.5	28	0.33

TABLE 6.3.2 RURAL MEHER

Geographic Area	All Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	12684	421	3.32	*	*	593	4.68	84	0.66
ZONE 1	2130	*	*	1	0.05	210	9.86	*	*
Jikawo	1001	*	*	-	-	150	14.99	-	-
Itang	703	1	0.14	1	0.14	55	7.82	*	*
Gambela	427	*	*	*	*	*	*	*	*
ZONE 2	10554	413	3.91	*	*	383	3.63	81	0.77
Abobo	2358	114	4.83	*	*	245	10.39	77	3.27
Jor	497	*	*	*	*	24	4.83	-	-
Gog	1246	50	4.01	-	-	*	*	*	*
Godare	6452	248	3.84	*	*	98	1.52	*	*

TABLE 6.3.3 RURAL BELG

Geographic Level	All Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	2987	21	0.7	*	*	43	1.44	24	0.8
ZONE 1	570	13	2.28	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	270	*	*	-	-	-	-	-	-
Gambela	299	*	*	-	-	-	-	-	-
ZONE 2	2418	*	*	*	*	43	1.78	24	0.99
Abobo	57	*	*	*	*	7	12.28	-	-
Jor	54	-	-	-	-	8	14.81	-	-
Gog	281	*	*	-	-	-	-	-	-
Godare	2025	*	*	-	-	*	*	24	1.19

TABLE 6.3.4 URBAN HOLDING

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	909	50	5.5	*	*	*	*	10	1.1
ZONE 1 Zone	229	*	*	*	*	*	*	9	3.93
Itang	107	*	*	-	-	-	-	-	-
Gambela	122	*	*	*	*	*	*	9	7.38
ZONE 2 Zone	679	38	5.6	*	*	*	*	*	*
Gog	37	-	-	-	-	*	*	*	*
Godare	642	38	5.92	*	*	*	*	-	-
Dima	*	-	-	-	-	-	-	-	-

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

Geographic Level	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	11816	223	1.89	*	*	542	4.59	112	0.95
ZONE 1	2690	32	1.19	*	*	215	7.99	12	0.45
Jikawo	938	*	*	-	-	150	15.99	-	-
Itang	1019	9	0.88	1	0.1	52	5.1	-	-
Gambela	733	22	3	*	*	*	*	12	1.64
ZONE 2	9126	190	2.08	*	*	327	3.58	100	1.1
Abobo	2019	116	5.75	*	*	233	11.54	72	3.57
Jor	537	*	*	*	*	29	5.4	-	-
Gog	1373	50	3.64	-	-	*	*	-	-
Godare	5196	23	0.44	-	-	49	0.94	28	0.54

TABLE 6.4.1 RURAL HOLDING

Geographic Level	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	11392	211	1.85	*	*	529	4.64	103	0.9
ZONE 1	2473	20	0.81	1	0.04	206	8.33	*	*
Jikawo	938	*	*	-	-	150	15.99	-	-
Itang	913	*	*	1	0.11	52	5.7	-	-
Gambela	622	13	2.09	-	-	*	*	*	*
ZONE 2	8919	190	2.13	*	*	323	3.62	100	1.12
Abobo	2019	116	5.75	*	*	233	11.54	72	3.57
Jor	537	*	*	*	*	29	5.4	-	-
Gog	1338	50	3.74	-	-	*	*	-	-
Godare	5024	23	0.46	-	-	47	0.94	28	0.56

TABLE 6.4.2 RURAL MEHER

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	8470	190	2.24	1	0.01	487	5.75	79	0.93
ZONE 1	1911	*	*	1	0.05	206	10.78	*	*
Jikawo	938	*	*	-	-	150	15.99	-	-
Itang	643	1	0.16	1	0.16	52	8.09	-	-
Gambela	330	*	*	-	-	*	*	*	*
ZONE 2	6559	182	2.77	*	*	281	4.28	76	1.16
Abobo	1962	114	5.81	-	-	226	11.52	72	3.67
Jor	484	*	*	*	*	21	4.34	-	-
Gog	1069	50	4.68	-	-	*	*	-	-
Godare	3045	*	*	-	-	19	0.62	*	*

TABLE 6.4.3 RURAL BELG

Geographic Level	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2922	21	0.72	*	*	42	1.44	24	0.82
ZONE 1	562	13	2.31	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	270	*	*	-	-	-	-	-	-
Gambela	292	*	*	-	-	-	-	-	-
ZONE 2	2360	*	*	*	*	42	1.78	24	1.02
Abobo	57	*	*	*	*	6	10.53	-	-
Jor	54	-	-	-	-	8	14.81	-	-
Gog	270	*	*	-	-	-	-	-	-
Godare	1980	*	*	-	-	*	*	24	1.21

TABLE 6.4.4 URBAN HOLDING

Geographic Level	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	425	*	*	*	*	*	*	9	2.12
ZONE 1 Zone	217	*	*	*	*	*	*	9	4.15
Itang	107	*	*	-	-	-	-	-	-
Gambela	110	*	*	*	*	*	*	9	8.18
ZONE 2 Zone	207	-	-	-	-	*	*	-	-
Gog	35	-	-	-	-	*	*	-	-
Godare	172	-	-	-	-	*	*	-	-
Dima	*	-	-	-	-	-	-	-	-

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

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	11036	220	1.99	*	*	533	4.83	92	0.83
ZONE 1	2601	31	1.19	*	*	210	8.07	11	0.42
Jikawo	923	*	*	-	-	150	16.25	-	-
Itang	995	9	0.9	1	0.1	47	4.72	-	-
Gambela	682	22	3.23	*	*	*	*	11	1.61
ZONE 2	8435	189	2.24	*	*	323	3.83	80	0.95
Abobo	1672	115	6.88	*	*	232	13.88	53	3.17
Jor	536	*	*	*	*	29	5.41	-	-
Gog	1363	50	3.67	-	-	*	*	-	-
Godare	4865	23	0.47	-	-	47	0.97	28	0.58

TABLE 6.5.1 RURAL HOLDINGS

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	10659	208	1.95	*	*	522	4.9	83	0.78
ZONE 1	2406	20	0.83	1	0.04	202	8.4	*	*
Jikawo	923	*	*	-	-	150	16.25	-	-
Itang	888	*	*	1	0.11	47	5.29	-	-
Gambela	594	13	2.19	-	-	*	*	*	*
ZONE 2	8253	189	2.29	*	*	319	3.87	80	0.97
Akobo	1672	115	6.88	*	*	232	13.88	53	3.17
Jor	536	*	*	*	*	29	5.41	-	-
Gog	1329	50	3.76	-	-	*	*	-	-
Godare	4717	23	0.49	-	-	44	0.93	28	0.59

TABLE 6.5.2 RURAL MEHER

Geographic Area	Cereals								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	7877	188	2.39	1	0.01	480	6.09	59	0.75
ZONE 1	*	*	1	0.05	202	10.94	*	*	*
Jikawo	*	*	-	-	150	16.25	-	-	*
Itang	1	0.16	1	0.16	47	7.59	-	-	1
Gambela	*	*	*	-	*	*	*	*	*
ZONE 2	181	3	*	*	278	4.61	57	0.95	181
Akobo	113	6.91	-	-	226	13.82	53	3.24	113
Jor	*	*	*	*	21	4.36	-	-	*
Gog	50	4.72	-	-	*	*	-	-	50
Godare	*	*	-	-	17	0.6	*	*	*

TABLE 6.5.2a Teff

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	5	-	-	-	-	-	-	-	-
ZONE 1	1	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	1	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	*	-	-	-	-	-	-	-	-
Akobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-

TABLE 6.5.2b Barley

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	9	-	-	-	-	-	-	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	8	-	-	-	-	-	-	-	-
Akobo	*	-	-	-	-	-	-	-	-
Jor	*	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	4	-	-	-	-	-	-	-	-

TABLE 6.5.2c Maize

Geographic Level	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	5110	143	2.8	1	0.02	418	8.18	52	1.02
ZONE 1	1716	1	0.06	1	0.06	192	11.19	*	*
Jikawo	919	-	-	-	-	150	16.32	-	-
Itang	603	1	0.17	1	0.17	42	6.97	-	-
Gambela	193	*	*	-	-	-	-	*	*
ZONE 2	3394	142	4.18	*	*	226	6.66	51	1.5
Akobo	1486	101	6.8	-	-	212	14.27	51	3.43
Jor	108	*	*	*	*	*	*	-	-
Gog	842	35	4.16	-	-	*	*	-	-
Godare	959	*	*	-	-	6	0.63	-	-

TABLE 6.5.2d Sorghum

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2664	39	1.46	-	-	54	2.03	*	*
ZONE 1	127	*	*	-	-	*	*	*	*
Jikawo	*	*	*	-	-	-	-	-	-
Itang	15	-	-	-	-	5	33.33	-	-
Gambela	109	*	*	-	-	*	*	*	*
ZONE 2	2537	33	1.3	-	-	44	1.73	*	*
Akobo	100	*	*	-	-	*	*	-	-
Jor	374	-	-	-	-	*	*	-	-
Gog	202	14	6.93	-	-	*	*	-	-
Godare	1860	*	*	-	-	11	0.59	*	*

TABLE 6.5.2e Finger Millet

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	48	*	*	-	-	*	*	-	-
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	48	*	*	-	-	*	*	-	-
Akobo	21	*	*	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	27	-	-	-	-	-	-	-	-

TABLE 6.5.2f Rice

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	39	*	*	-	-	*	*	*	*
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	38	*	*	-	-	*	*	*	*
Akobo	25	*	*	-	-	*	*	*	*
Jor	-	-	-	-	-	-	-	-	-
Gog	13	-	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-

TABLE 6.5.3 RURAL BELG

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2783	21	0.75	*	*	42	1.51	23	0.83
ZONE 1	560	13	2.32	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	269	*	*	-	-	-	-	-	-
Gambela	291	*	*	-	-	-	-	-	-
ZONE 2	2222	*	*	*	*	42	1.89	23	1.04
Abobo	37	*	*	*	*	6	16.22	-	-
Jor	54	-	-	-	-	8	14.81	-	-
Gog	269	*	*	-	-	-	-	-	-
Godare	1863	*	*	-	-	*	*	23	1.23

TABLE 6.5.4 URBAN HOLDINGS

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	377	*	*	*	*	*	*	9	2.39
ZONE 1 Zone	195	*	*	*	*	*	*	9	4.62
Itang	107	*	*	-	-	-	-	-	-
Gambela	88	*	*	*	*	*	*	9	10.23
ZONE 2 Zone	182	-	-	-	-	*	*	-	-
Gog	34	-	-	-	-	*	*	-	-
Godare	148	-	-	-	-	*	*	-	-
Dima	*	-	-	-	-	-	-	-	-

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

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	225	*	*	-	-	5	2.22	*	*
ZONE 1	4482	178	3.97	*	*	1291	28.8	*	*
Jikawo	452	9	1.99	*	*	115	25.44	*	*
Itang	241	10	4.15	-	-	6	2.49	-	-
Gambela	1009	*	*	*	*	409	40.54	-	-
ZONE 2	106	*	*	*	*	7	6.6	-	-
Abobo	1581	*	*	*	*	52	3.29	-	-
Jor	868	147	16.94	-	-	683	78.69	*	*
Gog	225	*	*	-	-	19	8.44	-	-
Godare	2079	15	0.72	66	3.17	243	11.69	*	*

TABLE 6.6.1 RURAL HOLDINGS

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	224	*	*	-	-	5	2.23	*	*
ZONE 1	47	*	*	-	-	4	8.51	-	-
Jikawo	13	*	*	-	-	-	-	-	-
Itang	19	*	*	-	-	4	21.05	-	-
Gambela	14	-	-	-	-	-	-	-	-
ZONE 2	178	*	*	-	-	1	0.56	*	*
Abobo	6	-	-	-	-	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	2	*	*	-	-	-	-	-	-
Godare	170	*	*	-	-	1	0.59	*	*

TABLE 6.6.2 RURAL MEHER

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	116	*	*	-	-	5	4.31	*	*
ZONE 1	46	*	*	-	-	4	8.7	-	-
Jikawo	13	*	*	-	-	-	-	-	-
Itang	19	*	*	-	-	4	21.05	-	-
Gambela	14	-	-	-	-	-	-	-	-
ZONE 2	70	*	*	-	-	*	*	*	*
Abobo	6	-	-	-	-	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	2	*	*	-	-	-	-	-	-
Godare	63	*	*	-	-	*	*	-	-

TABLE 6.6.2a Haricot beans

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	112	*	*	-	-	4	3.57	*	*
ZONE 1	46	*	*	-	-	4	8.7	-	-
Jikawo	13	*	*	-	-	-	-	-	-
Itang	19	*	*	-	-	4	21.05	-	-
Gambela	14	-	-	-	-	-	-	-	-
ZONE 2	66	*	*	-	-	*	*	*	*
Abobo	6	-	-	-	-	*	*	*	*
Jor	-	-	-	-	-	-	-	-	-
Gog	2	*	*	-	-	-	-	-	-
Godare	59	*	*	-	-	*	*	-	-

TABLE 6.6.3 RURAL BELG

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	108	-	-	-	-	*	*	*	*
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	107	-	-	-	-	*	*	*	*
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	107	-	-	-	-	*	*	*	*

TABLE 6.6.4 URBAN HOLDINGS

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	179	12	6.7	*	*	*	*	*	*
ZONE 1 Zone	148	12	8.11	-	-	*	*	-	-
Itang	15	9	60	-	-	*	*	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2 Zone	17	*	*	-	-	9	52.94	-	-
Gog	2	-	-	-	-	2	100	-	-
Godare	46	-	-	-	-	-	-	-	-
Dima	*	-	-	-	-	*	*	-	-

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

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	389	*	*	*	*	*	*	*	*
ZONE 1	34	*	*	*	*	*	*	*	*
Jikawo	-	-	-	-	-	-	-	-	-
Itang	2	-	-	-	-	-	-	-	-
Gambela	32	*	*	*	*	*	*	*	*
ZONE 2	354	*	*	-	-	*	*	*	*
Abobo	340	*	*	-	-	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	6	*	*	-	-	*	*	-	-
Godare	9	*	*	-	-	-	-	-	-

TABLE 6.7.1 RURAL HOLDINGS

Geographic Level	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	366	*	*	-	-	*	*	*	*
ZONE 1	13	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	2	-	-	-	-	-	-	-	-
Gambela	10	-	-	-	-	-	-	-	-
ZONE 2	353	*	*	-	-	*	*	*	*
Abobo	340	*	*	-	-	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	5	*	*	-	-	*	*	-	-
Godare	9	*	*	-	-	-	-	-	-

TABLE 6.7.2 RURAL MEHER

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	345	*	*	-	-	*	*	*	*
ZONE 1	12	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	2	-	-	-	-	-	-	-	-
Gambela	10	-	-	-	-	-	-	-	-
ZONE 2	333	*	*	-	-	*	*	*	*
Abobo	319	-	-	-	-	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	5	*	*	-	-	*	*	-	-
Godare	9	*	*	-	-	-	-	-	-

TABLE 6.7.2C Groundnuts

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	26	*	*	-	-	*	*	-	-
ZONE 1	4	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	1	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	22	*	*	-	-	*	*	-	-
Abobo	*	-	-	-	-	-	-	-	-
Jor	*	-	-	-	-	-	-	-	-
Gog	5	*	*	-	-	*	*	-	-
Godare	*	-	-	-	-	-	-	-	-

TABLE 6.7.2a Sufflower

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	1	-	-	-	-	-	-	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	1	-	-	-	-	-	-	-	-
Abobo	*	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-

TABLE 6.7.2b Sesame

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	315	-	-	-	-	*	*	*	*
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	308	-	-	-	-	*	*	*	*
Abobo	300	-	-	-	-	*	*	*	*
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	7	-	-	-	-	-	-	-	-

TABLE 6.7.3 RURAL BELG

Geographic Area	Oil seeds								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	21	*	*	-	-	-	-	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	21	*	*	-	-	-	-	-	-
Abobo	21	*	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-

TABLE 6.7.4 URBAN HOLDINGS

Geographic Level	Oil Seeds								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	23	*	*	*	*	*	*	*	*
ZONE 1 Zone	22	*	*	*	*	*	*	*	*
Itang	-	-	-	-	-	-	-	-	-
Gambela	22	*	*	*	*	*	*	*	*
ZONE 2 Zone	*	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-
Dima	*	-	-	-	-	-	-	-	-

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

Geographic Area	Other Grains								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Gambela Killil	166	*	*	-	-	*	*	*	*
ZONE 1	7	-	-	-	-	*	*	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	3	-	-	-	-	*	*	-	-
Gambela	3	-	-	-	-	-	-	-	-
ZONE 2	159	*	*	-	-	*	*	*	*
Abobo	2	*	*	-	-	*	*	-	-
Jor	1	-	-	-	-	*	*	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	153	-	-	-	-	*	*	*	*

TABLE 6.8.1 RURAL HOLDINGS

Geographic Level	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	142	*	*	-	-	*	*	*	*
ZONE 1	7	-	-	-	-	*	*	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	3	-	-	-	-	*	*	-	-
Gambela	3	-	-	-	-	-	-	-	-
ZONE 2	135	*	*	-	-	*	*	*	*
Abobo	2	*	*	-	-	*	*	-	-
Jor	1	-	-	-	-	*	*	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	129	-	-	-	-	*	*	*	*

TABLE 6.8.2 RURAL MEHER

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	132	*	*	-	-	*	*	-	-
ZONE 1	7	-	-	-	-	*	*	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	3	-	-	-	-	*	*	-	-
Gambela	3	-	-	-	-	-	-	-	-
ZONE 2	125	*	*	-	-	*	*	-	-
Abobo	2	*	*	-	-	*	*	-	-
Jor	1	-	-	-	-	*	*	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	119	-	-	-	-	*	*	-	-

TABLE 6.8.3 RURAL BELG

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	10	-	-	-	-	*	*	*	*
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	10	-	-	-	-	*	*	*	*
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	10	-	-	-	-	*	*	*	*

TABLE 6.9.1 RURAL HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	611	*	*	*	*	18	2.95	*	*
ZONE 1	34	*	*	*	*	*	*	-	-
Jikawo	14	-	-	-	-	-	-	-	-
Itang	2	-	-	-	-	*	*	-	-
Gambela	18	*	*	*	*	-	-	-	-
ZONE 2	577	*	*	-	-	18	3.12	*	*
Abobo	331	*	*	-	-	12	3.63	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	159	-	-	-	-	*	*	-	-
Godare	86	-	-	-	-	5	5.81	-	-

TABLE 6.9.2 RURAL MEHER

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	562	*	*	*	*	17	3.02	*	*
ZONE 1	28	*	*	*	*	*	*	-	-
Jikawo	14	-	-	-	-	-	-	-	-
Itang	2	-	-	-	-	*	*	-	-
Gambela	11	*	*	*	*	-	-	-	-
ZONE 2	534	*	*	-	-	17	3.18	*	*
Abobo	331	*	*	-	-	12	3.63	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	150	-	-	-	-	*	*	-	-
Godare	53	-	-	-	-	5	9.43	-	-

TABLE 6.9.2a Kale

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	22	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	*	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	*	*	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	22	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	19	-	-	-	-	*	*	-	-

TABLE 6.9.2b Tomatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	8	*	*	*	*	*	*	*	*
ZONE 1	*	*	*	*	*	*	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	*	*	-	-
Gambela	*	*	*	*	*	-	-	-	-
ZONE 2	4	*	*	-	-	*	*	*	*
Abobo	*	*	*	-	-	*	*	*	*
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-

TABLE 6.9.2c Green peppers

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	5	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	5	-	-	-	-	*	*	-	-
Abobo	2	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	2	-	-	-	-	*	*	-	-

TABLE 6.9.2d Red peppers

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	20	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	20	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	17	-	-	-	-	*	*	-	-

TABLE 6.9.2e Other Vegetables

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	506	-	-	-	-	11	2.17	*	*
ZONE 1	145	*	*	*	*	24	16.55	-	-
Jikawo	55	-	-	-	-	*	*	-	-
Itang	29	*	*	-	-	*	*	-	-
Gambela	*	-	-	-	-	*	*	-	-
ZONE 2	12	*	*	-	-	3	25	-	-
Abobo	18	-	-	*	*	*	*	-	-
Jor	10	-	-	-	-	6	60	-	-
Gog	*	-	-	-	-	*	*	-	-
Godare	321	*	*	*	*	94	29.28	*	*

TABLE 6.9.3 RURAL BELG

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	49	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	43	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	9	-	-	-	-	-	-	-	-
Godare	34	-	-	-	-	*	*	-	-

TABLE 6.9.4 URBAN HOLDINGS

Geographic Level	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	-	-	-	-	-	-	*	*
ZONE 1 Zone	3	-	-	-	-	-	-	*	*
Itang	-	-	-	-	-	-	-	-	-
Gambela	3	-	-	-	-	-	-	*	*
ZONE 2 Zone	*	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-
Dima	*	-	-	-	-	-	-	-	-

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

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	1171	*	*	83	7.09	430	36.72	*	*
ZONE 1	488	*	*	47	9.63	243	49.8	-	-
Jikawo	85	-	-	*	*	54	63.53	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	349	*	*	46	13.18	172	49.28	-	-
ZONE 2	*	-	-	-	-	-	-	-	-
Abobo	31	-	-	*	*	*	*	-	-
Jor	20	-	-	-	-	9	45	-	-
Gog	*	*	*	-	-	*	*	-	-
Godare	592	*	*	29	4.9	154	26.01	*	*

TABLE 6.10.1 RURAL HOLDINGS

Geographic Level	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	380	*	*	*	*	12	3.16	*	*
ZONE 1	70	-	-	*	*	1	1.43	-	-
Jikawo	38	-	-	-	-	*	*	-	-
Itang	13	-	-	-	-	1	7.69	-	-
Gambela	19	-	-	*	*	*	*	-	-
ZONE 2	310	*	*	*	*	11	3.55	*	*
Abobo	44	*	*	-	-	5	11.36	*	*
Jor	7	-	-	*	*	*	*	-	-
Gog	11	-	-	-	-	-	-	-	-
Godare	248	-	-	-	-	4	1.61	-	-

TABLE 6.10.2 RURAL MEHER

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	363	*	*	*	*	12	3.31	*	*
ZONE 1	69	-	-	*	*	1	1.45	-	-
Jikawo	38	-	-	-	-	*	*	-	-
Itang	13	-	-	-	-	1	7.69	-	-
Gambela	18	-	-	*	*	*	*	-	-
ZONE 2	295	*	*	*	*	11	3.73	*	*
Abobo	43	*	*	-	-	5	11.63	*	*
Jor	7	-	-	*	*	*	*	-	-
Gog	9	-	-	-	-	-	-	-	-
Godare	236	-	-	-	-	4	1.69	-	-

TABLE 6.10.2a Garlic

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	1	-	-	-	-	*	*	-	-
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	1	-	-	-	-	*	*	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	1	-	-	-	-	*	*	-	-

TABLE 6.10.2b Taro ('Godere')

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	221	-	-	*	*	8	3.62	-	-
ZONE 1	17	-	-	*	*	1	5.88	-	-
Jikawo	*	-	-	-	-	*	*	-	-
Itang	11	-	-	-	-	1	9.09	-	-
Gambela	6	-	-	*	*	-	-	-	-
ZONE 2	203	-	-	*	*	6	2.96	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	7	-	-	*	*	*	*	-	-
Gog	5	-	-	-	-	-	-	-	-
Godare	188	-	-	-	-	*	*	-	-

TABLE 6.10.2c Sweet potatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	108	-	-	-	-	4	3.7	*	*
ZONE 1	44	-	-	-	-	-	-	-	-
Jikawo	38	-	-	-	-	-	-	-	-
Itang	1	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	64	-	-	-	-	4	6.25	*	*
Abobo	36	-	-	-	-	4	11.11	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	2	-	-	-	-	-	-	-	-
Godare	26	-	-	-	-	*	*	-	-

TABLE 6.10.2d Other root crops

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	32	*	*	-	-	*	*	*	*
ZONE 1	7	-	-	-	-	*	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	*	*	-	-
Gambela	7	-	-	-	-	*	*	-	-
ZONE 2	25	*	*	-	-	*	*	*	*
Abobo	3	*	*	-	-	*	*	*	*
Jor	-	-	-	-	-	-	-	-	-
Gog	2	-	-	-	-	-	-	-	-
Godare	20	-	-	-	-	*	*	-	-

TABLE 6.10.3 RURAL BELG

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	16	-	-	-	-	*	*	-	-
ZONE 1	1	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	15	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	*	-	-	-	-	*	*	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	12	-	-	-	-	*	*	-	-

TABLE 6.10.4 URBAN HOLDINGS

Geographic Level	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	-	-	-	-	-	-	*	*
ZONE 1 Zone	4	-	-	-	-	-	-	*	*
Itang	-	-	-	-	-	-	-	-	-
Gambela	4	-	-	-	-	-	-	*	*
ZONE 2 Zone	*	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-
Dima	*	-	-	-	-	-	-	-	-

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

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2501	117	4.68	636	25.43	660	26.39	5	0.2
ZONE 1	776	17	2.19	500	64.43	238	30.67	*	*
Jikawo	40	*	*	*	*	8	20	*	*
Itang	17	*	*	1	5.88	1	5.88	-	-
Gambela	546	*	*	461	84.43	153	28.02	*	*
ZONE 2	4	*	*	*	*	*	*	-	-
Abobo	83	*	*	14	16.87	43	51.81	*	*
Jor	58	*	*	11	18.97	18	31.03	*	*
Gog	28	1	3.57	*	*	*	*	*	*
Godare	1487	97	6.52	117	7.87	383	25.76	*	*

TABLE 6.11.1 RURAL MEHER

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	3289	231	7.02	*	*	76	2.31	*	*
ZONE 1	123	*	*	*	*	2	1.63	*	*
Jikawo	11	-	-	-	-	*	*	-	-
Itang	45	*	*	*	*	2	4.44	*	*
Gambela	67	*	*	*	*	*	*	-	-
ZONE 2	3165	230	7.27	*	*	74	2.34	*	*
Abobo	22	*	*	*	*	*	*	*	*
Jor	7	-	-	*	*	*	*	-	-
Gog	18	*	*	-	-	*	*	*	*
Godare	3119	230	7.37	*	*	70	2.24	*	*

TABLE 6.11.2 URBAN HOLDINGS

[illegible]

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

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	1171	8	0.68	119	10.16	304	25.96	2	0.17
ZONE 1	189	2	1.06	61	32.28	68	35.98	*	*
Jikawo	13	*	*	2	15.38	*	*	-	-
Itang	17	*	*	1	5.88	*	*	-	-
Gambela	43	*	*	36	83.72	17	39.53	-	-
ZONE 2	2	*	*	*	*	*	*	-	-
Abobo	45	*	*	*	*	20	44.44	*	*
Jor	50	*	*	9	18	16	32	*	*
Gog	20	*	*	*	*	*	*	*	*
Godare	775	6	0.77	57	7.35	200	25.81	1	0.13

TABLE 6.12.1 RURAL MEHER

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	361	*	*	*	*	8	2.22	*	*
ZONE 1	121	*	*	*	*	2	1.65	*	*
Jikawo	11	-	-	-	-	*	*	-	-
Itang	44	*	*	*	*	2	4.55	*	*
Gambela	67	*	*	*	*	*	*	-	-
ZONE 2	240	*	*	*	*	6	2.5	*	*
Abobo	21	*	*	*	*	*	*	*	*
Jor	7	-	-	*	*	*	*	-	-
Gog	17	*	*	-	-	*	*	*	*
Godare	195	*	*	-	-	2	1.03	*	*

TABLE 6.12.1a Avocado

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	*	*	-	-	*	*	*	*
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	4	*	*	-	-	*	*	*	*
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	4	*	*	-	-	*	*	*	*

TABLE 6.12.1b Bananas

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	181	*	*	*	*	3	1.66	*	*
ZONE 1	50	*	*	*	*	1	2	*	*
Jikawo	5	-	-	-	-	*	*	-	-
Itang	14	-	-	*	*	*	*	*	*
Gambela	31	*	*	*	*	*	*	-	-
ZONE 2	131	*	*	*	*	*	*	-	-
Abobo	*	-	-	-	-	-	-	-	-
Jor	5	-	-	*	*	*	*	-	-
Gog	3	-	-	-	-	-	-	-	-
Godare	123	*	*	-	-	1	0.81	-	-

TABLE 6.12.1c Guava (Zeytuna)

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	*	*	-	-	*	*	-	-
ZONE 1	*	*	*	-	-	*	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	*	*	-	-
Gambela	*	*	*	-	-	-	-	-	-
ZONE 2	3	*	*	-	-	-	-	-	-
Abobo	*	*	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	1	-	-	-	-	-	-	-	-

TABLE 6.12.1d Lemons

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	4	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	2	-	-	-	-	-	-	-	-

TABLE 6.12.1e Mangoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	105	*	*	*	*	2	1.9	*	*
ZONE 1	59	*	*	*	*	1	1.69	-	-
Jikawo	3	-	-	-	-	-	-	-	-
Itang	25	*	*	-	-	1	4	-	-
Gambela	31	-	-	*	*	-	-	-	-
ZONE 2	45	*	*	-	-	1	2.22	*	*
Abobo	3	*	*	-	-	*	*	*	*
Jor	1	-	-	-	-	-	-	-	-
Gog	7	-	-	-	-	*	*	-	-
Godare	35	*	*	-	-	*	*	-	-

TABLE 6.12.1f Oranges

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	10	*	*	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	10	*	*	-	-	*	*	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	10	*	*	-	-	*	*	-	-

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

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	1256	108	8.6	489	38.93	326	25.96	*	*
ZONE 1	571	*	*	436	76.36	165	28.9	*	*
Jikawo	23	-	-	*	*	7	30.43	*	*
Itang	-	-	-	-	-	-	-	-	-
Gambela	502	*	*	425	84.66	136	27.09	*	*
ZONE 2	2	*	*	*	*	*	*	-	-
Abobo	34	*	*	*	*	20	58.82	*	*
Jor	1	-	-	*	*	*	*	*	*
Gog	*	*	*	*	*	*	*	-	-
Godare	657	90	13.7	36	5.48	160	24.35	*	*

TABLE 6.13.1: RURAL MEHER

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2463	227	9.22	*	*	10	0.41	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	2463	227	9.22	*	*	10	0.41	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	2462	227	9.22	*	*	10	0.41	-	-

TABLE 6.13.1a Chat

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	37	-	-	-	-	*	*	-	-
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	37	-	-	-	-	*	*	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	37	-	-	-	-	*	*	-	-

TABLE 6.13.1b Coffee

[illegible]

Godare	2411	227	9.42	*	*	10	0.41	-	-
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TABLE 6.13.1c Gesho

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	14	-	-	-	-	*	*	-	-
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	14	-	-	-	-	*	*	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	14	-	-	-	-	*	*	-	-

TABLE 6.13.2 URBAN HOLDINGS

Geographic Level	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	463	38	8.21	-	-	*	*	-	-
ZONE 1 Zone	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2 Zone	463	38	8.21	-	-	*	*	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	463	38	8.21	-	-	*	*	-	-
Dima	-	-	-	-	-	-	-	-	-

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

Geographic Area	Other permanent crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	73	*	*	27	36.99	30	41.1	-	-
ZONE 1	15	-	-	3	20	*	*	-	-
Jikawo	*	-	-	*	*	*	*	-	-
Itang	1	-	-	-	-	*	*	-	-
Gambela	1	-	-	-	-	*	*	-	-
ZONE 2	*	-	-	*	*	-	-	-	-
Abobo	*	-	-	*	*	*	*	-	-
Jor	6	-	-	*	*	2	33.33	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	55	*	*	24	43.64	23	41.82	-	-

TABLE 6.14.1 RURAL MEHER

Geographic Area	Other permanent crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	465	*	*	*	*	58	12.47	*	*
ZONE 1	2	-	-	-	-	*	*	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	1	-	-	-	-	*	*	-	-
Gambela	*	-	-	-	-	*	*	-	-
ZONE 2	463	*	*	*	*	58	12.53	*	*
Abobo	*	-	-	*	*	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	1	-	-	-	-	-	-	-	-
Godare	461	*	*	-	-	58	12.58	-	-

TABLE 6.14.1a Enset

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	393	-	-	-	-	56	14.25	-	-
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	393	-	-	-	-	56	14.25	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	393	-	-	-	-	56	14.25	-	-

TABLE 6.14.1b Sugar cane

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	68	*	*	*	*	2	2.94	*	
ZONE 1	1	-	-	-	-	*	*	-	
Jikawo	*	-	-	-	-	-	-	-	
Itang	1	-	-	-	-	*	*	-	
Gambela	*	-	-	-	-	-	-	-	
ZONE 2	67	*	*	*	*	2	2.99	*	
Abobo	*	-	-	*	*	-	-	*	
Jor	*	-	-	-	-	-	-	-	
Gog	1	-	-	-	-	-	-	-	
Godare	65	*	*	-	-	2	3.08	-	

TABLE 6.14.1c Other of Other Permanent Crops

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	-	-	-	-	*	*	-	-
ZONE 1	1	-	-	-	-	*	*	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	1	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	*	*	-	-
ZONE 2	3	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	3	-	-	-	-	*	*	-	-

TABLE 6.14.2 URBAN HOLDINGS

[illegible]

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

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
	Holders	Hectares	Natural		Chemical – DAP		
			Holders	Hectares	Holders	Hectares	Quintals
TOTAL	3862	636	3598	427	239	120	99
Grain Crops	2469	529	2226	326	199	117	98
Cereals	2320	522	2076	319	199	117	98
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	2199	459	1966	281	183	92	84
Sorghum	210	54	195	37	*	*	*
Finger millet	*	*	*	*	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-
Rice	34	*	-	-	34	*	*
Pulses	297	5	293	5	-	-	-
Horse beans	*	*	*	*	-	-	-
Field peas	*	*	*	*	-	-	-
Haricot beans	224	5	220	5	-	-	-
Chick peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	*	*	*	*	-	-	-
Soya	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	-	-	-
Gibto	*	*	*	*	-	-	-
Oil Seeds	*	*	*	*	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	*	*	*	*	-	-	-
Sufflower	-	-	-	-	-	-	-
Sesame	*	*	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-
Other Grains	62	*	62	*	-	-	-
Vegetables	1007	18	973	15	*	*	*
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Kale	576	5	576	5	-	-	-
Tomatoes	92	*	87	*	*	*	*
Green peppers	74	*	64	*	*	*	*
Red peppers	57	*	57	*	-	-	-
Swiss chard	-	-	-	-	-	-	-
Others	332	11	303	8	*	*	-
Root Crops	725	12	712	12	*	*	-
Beet root	-	-	-	-	-	-	-
Carrot	*	*	*	*	-	-	-
Onions	*	*	*	*	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	*	*	*	*	-	-	-
Taro ('Godere')	439	8	439	8	-	-	-
Sweet potatoes	189	5	180	4	*	*	-
Others	*	*	*	*	-	-	-
Permanent Crops	1637	76	1561	73	*	*	*
Fruit Crops	798	8	735	7	*	*	*
Avocado	*	*	*	*	-	-	-
Bananas	313	3	297	3	*	*	*
Guava (Zeytuna)	*	*	*	*	-	-	-
Lemons	*	*	*	*	-	-	-
Mangoes	300	2	282	2	*	*	*
Oranges	*	*	*	*	-	-	-
Papayas	449	2	412	2	*	*	*
Pineapples	*	*	*	*	-	-	-
Others	*	*	*	*	-	-	-
Stimulant Crops	318	10	304	*	-	-	-
Chat	*	*	*	*	-	-	-
Coffee	214	10	201	*	-	-	-
Hops	*	*	*	*	-	-	-
Others	-	-	-	-	-	-	-
Other Permanent Crops	939	58	939	58	-	-	-
Enset	805	56	805	56	-	-	-
Sugar Cane	355	2	355	2	-	-	-
Others	118	*	118	*	-	-	-

TABLE 6.15 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holders	Hectares	Quintals	Holders	Hectares	Quintals
TOTAL	81	21	*	87	68	105
Grain Crops.....	50	*	*	87	68	105
Cereals	50	*	*	83	68	105
Teff	-	-	-	-	-	-
Barley.....	-	-	-	-	-	-
Wheat.....	-	-	-	-	-	-
Maize.....	50	*	*	83	68	105
Sorghum.....	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-
Oats ('Aja').....	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	-	-	-	*	*	-
Horse beans.....	-	-	-	-	-	-
Field peas.....	-	-	-	-	-	-
Haricot beans	-	-	-	*	*	-
Chick peas.....	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch.....	-	-	-	-	-	-
Soya	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-
Neug.....	-	-	-	-	-	-
Linseed.....	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-
Sesame.....	-	-	-	-	-	-
Rapeseed.....	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-
Vegetables	-	-	-	*	*	-
Lettuce	-	-	-	-	-	-
Head cabbage.....	-	-	-	-	-	-
Kale.....	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-
Green peppers.....	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Others.....	-	-	-	*	*	-
Root Crops.....	*	*	-	-	-	-
Beet root	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onions.....	-	-	-	-	-	-
Potatoes.....	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-
Others.....	*	*	-	-	-	-
Permanent Crops.....	42	*	*	-	-	-
Fruit Crops.....	*	*	*	-	-	-
Avocado.....	-	-	-	-	-	-
Bananas.....	-	-	-	-	-	-
Guava (Zeytuna).....	-	-	-	-	-	-
Lemons	-	-	-	-	-	-
Mangoes.....	*	*	*	-	-	-
Oranges.....	-	-	-	-	-	-
Papayas	*	*	-	-	-	-
Pineapples.....	-	-	-	-	-	-
Others.....	-	-	-	-	-	-
Stimulant Crops.....	*	*	-	-	-	-
Chat.....	-	-	-	-	-	-
Coffee	*	*	-	-	-	-
Hops	-	-	-	-	-	-
Others.....	-	-	-	-	-	-
Other Permanent Crops	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Sugar Cane.....	-	-	-	-	-	-
Others.....	-	-	-	-	-	-

TABLE 6.15.1 RURAL MEHER

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity					
	Holders	Hectares	Natural		Chemical – DAP			
			Holders	Hectares	Holders	Hectares	Quintals	
TOTAL	3431	593	3151	384	239	120		99
Grain Crops	2016	487	1751	284	199	117		98
Cereals	1867	480	1601	277	199	117		98
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	1722	418	1466	240	183	92		84
Sorghum	210	54	195	37	*	*		*
Finger millet	*	*	*	*	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-
Rice	34	*	-	-	34	*		*
Pulses	266	5	262	5	-	-	-	-
Horse beans	*	*	*	*	-	-	-	-
Field peas	*	*	*	*	-	-	-	-
Haricot beans	193	4	189	4	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	*	*	*	*	-	-	-	-
Soya	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	-	-	-	-
Gibto	*	*	*	*	-	-	-	-
Oil Seeds	*	*	*	*	-	-	-	-
Neug	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	*	*	*	*	-	-	-	-
Sufflower	-	-	-	-	-	-	-	-
Sesame	*	*	*	*	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Other Grains	50	*	50	*	-	-	-	-
Vegetables	960	17	926	15	*	*		*
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Kale	529	*	529	*	-	-	-	-
Tomatoes	92	*	87	*	*	*		*
Green peppers	74	*	64	*	*	*		*
Red peppers	57	*	57	*	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Others	332	11	303	8	*	*		-
Root Crops	704	12	691	12	*	*		-
Beet root	-	-	-	-	-	-	-	-
Carrot	*	*	*	*	-	-	-	-
Onions	*	*	*	*	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	*	*	*	*	-	-	-	-
Taro ('Godere')	424	8	424	8	-	-	-	-
Sweet potatoes	184	4	174	4	*	*		-
Others	*	*	*	*	-	-	-	-
Permanent Crops	1637	76	1561	73	*	*		*
Fruit Crops	798	8	735	7	*	*		*
Avocado	*	*	*	*	-	-	-	-
Bananas	313	3	297	3	*	*		*
Guava (Zeytuna)	*	*	*	*	-	-	-	-
Lemons	*	*	*	*	-	-	-	-
Mangoes	300	2	282	2	*	*		*
Oranges	*	*	*	*	-	-	-	-
Papayas	449	2	412	2	*	*		*
Pineapples	*	*	*	*	-	-	-	-
Others	*	*	*	*	-	-	-	-
Stimulant Crops	318	10	304	*	-	-	-	-
Chat	*	*	*	*	-	-	-	-
Coffee	214	10	201	*	-	-	-	-
Hops	*	*	*	*	-	-	-	-
Others	-	-	-	-	-	-	-	-
Other Permanent Crops	939	58	939	58	-	-	-	-
Enset	805	56	805	56	-	-	-	-
Sugar Cane	355	2	355	2	-	-	-	-
Others	118	*	118	*	-	-	-	-

TABLE 6.15 .1 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holders	Hectares	Quintals	Holders	Hectares	Quintals
TOTAL	81	21	*	87	68	105
Grain Crops.....	50	*	*	87	68	105
Cereals	50	*	*	83	68	105
Teff.....	-	-	-	-	-	-
Barley.....	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	50	*	*	83	68	105
Sorghum.....	-	-	-	-	-	-
Finger millet.....	-	-	-	-	-	-
Oats ('Aja').....	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	-	-	-	*	*	-
Horse beans.....	-	-	-	-	-	-
Field peas.....	-	-	-	-	-	-
Haricot beans	-	-	-	*	*	-
Chick peas.....	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch.....	-	-	-	-	-	-
Soya	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-
Neug.....	-	-	-	-	-	-
Linseed.....	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-
Vegetables	-	-	-	*	*	-
Lettuce	-	-	-	-	-	-
Head cabbage.....	-	-	-	-	-	-
Kale	-	-	-	-	-	-
Tomatoes.....	-	-	-	-	-	-
Green peppers.....	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Others.....	-	-	-	*	*	-
Root Crops	*	*	-	-	-	-
Beet root.....	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onions.....	-	-	-	-	-	-
Potatoes.....	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro ('Godere').....	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-
Others.....	*	*	-	-	-	-
Permanent Crops.....	42	*	*	-	-	-
Fruit Crops.....	*	*	*	-	-	-
Avocado.....	-	-	-	-	-	-
Bananas.....	-	-	-	-	-	-
Guava (Zeytuna)	-	-	-	-	-	-
Lemons.....	-	-	-	-	-	-
Mangoes.....	*	*	*	-	-	-
Oranges	-	-	-	-	-	-
Papayas	*	*	-	-	-	-
Pineapples.....	-	-	-	-	-	-
Others.....	-	-	-	-	-	-
Stimulant Crops.....	*	*	-	-	-	-
Chat.....	-	-	-	-	-	-
Coffee.....	*	*	-	-	-	-
Hops	-	-	-	-	-	-
Others.....	-	-	-	-	-	-
Other Permanent Crops	-	-	-	-	-	-
Enset.....	-	-	-	-	-	-
Sugar Cane.....	-	-	-	-	-	-
Others.....	-	-	-	-	-	-

TABLE 6.15.2 RURAL BELG

CROP	Application of Total Fertilizer		Application of Fertilizer by Type and Quantity				
			Natural		Chemical – DAP		
	Holders	Hectares	Holders	Hectares	Holders	Hectares	Quintals
TOTAL	599	43	599	43	-	-	-
Grain Crops	589	42	589	42	-	-	-
Cereals	589	42	589	42	-	-	-
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	589	42	589	42	-	-	-
Sorghum	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	*	*	*	*	-	-	-
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	*	*	*	*	-	-	-
Chick peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Other Grains	*	*	*	*	-	-	-
Vegetables	*	*	*	*	-	-	-
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Kale	*	*	*	*	-	-	-
Tomatoes	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Others	*	*	*	*	-	-	-
Root Crops	*	*	*	*	-	-	-
Beet root	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onions	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro ('Godere')	*	*	*	*	-	-	-
Sweet potatoes	*	*	*	*	-	-	-
Others	-	-	-	-	-	-	-

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

CROP	Application of Total Fertilizers		Application of Fertilizers by Type					
	Holders	Hectares	Natural		Chemical		Natural and Chemical	
			Holders	Hectares	Holders	Hectares	Holders	Hectares
TOTAL	30	*	*	*	26	*	-	-
Grain Crops.....	25	*	*	*	21	*	-	-
Cereals.....	25	*	*	*	21	*	-	-
Teff.....	-	-	-	-	-	-	-	-
Barley.....	-	-	-	-	-	-	-	-
Wheat.....	-	-	-	-	-	-	-	-
Maize.....	25	*	*	*	21	*	-	-
Sorghum.....	*	*	*	*	*	*	-	-
Finger millet.....	-	-	-	-	-	-	-	-
Oats ('Aja').....	-	-	-	-	-	-	-	-
Rice.....	-	-	-	-	-	-	-	-
Pulses.....	-	-	-	-	-	-	-	-
Horse beans.....	-	-	-	-	-	-	-	-
Field peas.....	-	-	-	-	-	-	-	-
Haricot beans.....	-	-	-	-	-	-	-	-
Chick peas.....	-	-	-	-	-	-	-	-
Lentils.....	-	-	-	-	-	-	-	-
Vetch.....	-	-	-	-	-	-	-	-
Soya.....	-	-	-	-	-	-	-	-
Fenugreek.....	-	-	-	-	-	-	-	-
Gibto.....	-	-	-	-	-	-	-	-
Oil Seeds.....	*	*	*	*	*	*	-	-
Neug.....	-	-	-	-	-	-	-	-
Linseed.....	*	*	-	-	*	*	-	-
Ground nuts.....	*	*	*	*	-	-	-	-
Sufflower.....	-	-	-	-	-	-	-	-
Sesame.....	*	*	*	*	-	-	-	-
Rapeseed.....	-	-	-	-	-	-	-	-
Other Grains.....	-	-	-	-	-	-	-	-
Vegetables.....	-	-	-	-	-	-	-	-
Lettuce.....	-	-	-	-	-	-	-	-
Head cabbage.....	-	-	-	-	-	-	-	-
Kale.....	-	-	-	-	-	-	-	-
Tomatoes.....	-	-	-	-	-	-	-	-
Green peppers.....	-	-	-	-	-	-	-	-
Red peppers.....	-	-	-	-	-	-	-	-
Swiss chard.....	-	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-
Root Crops.....	-	-	-	-	-	-	-	-
Beet root.....	-	-	-	-	-	-	-	-
Carrot.....	-	-	-	-	-	-	-	-
Onions.....	-	-	-	-	-	-	-	-
Potatoes.....	-	-	-	-	-	-	-	-
Garlic.....	-	-	-	-	-	-	-	-
Taro ('Godere').....	-	-	-	-	-	-	-	-
Sweet potatoes.....	-	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-
Permanent Crops.....	*	*	-	-	*	*	-	-
Fruit Crops.....	-	-	-	-	-	-	-	-
Avocado.....	-	-	-	-	-	-	-	-
Bananas.....	-	-	-	-	-	-	-	-
Guava (Zeytuna).....	-	-	-	-	-	-	-	-
Lemons.....	-	-	-	-	-	-	-	-
Mangoes.....	-	-	-	-	-	-	-	-
Oranges.....	-	-	-	-	-	-	-	-
Papayas.....	-	-	-	-	-	-	-	-
Pineapples.....	-	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-
Stimulant Crops.....	*	*	-	-	*	*	-	-
Chat.....	-	-	-	-	-	-	-	-
Coffee.....	*	*	-	-	*	*	-	-
Hops.....	-	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-
Other Permanent Crops.....	-	-	-	-	-	-	-	-
Enset.....	-	-	-	-	-	-	-	-
Sugar Cane.....	-	-	-	-	-	-	-	-

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

All Crops								
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied					
			Natural		Dap			
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal	
Gambela Killil	3892	648	3602	428	239	120		99
ZONE 1	1132	218	1107	211	*	*		*
Jikawo	710	150	699	150	*	*		*
Itang	380	55	380	55	-	-		-
Gambela	42	*	*	*	-	-		-
ZONE 2	2760	430	2495	217	228	120		98
Abobo	786	252	594	62	193	105		90
Jor	166	32	166	32	-	-		-
Gog	63	*	30	*	*	*		*
Godare	1745	129	1704	123	*	*		*
Dima	-	-	-	-	-	-		-

TABLE 6.17 Contd.

All Crops								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical - DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Gambela Killil	81	21	*	87	68	105	26	*
ZONE 1	*	*	-	-	-	-	*	*
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	*	*	-	-	-	-	*	*
ZONE 2	78	21	*	87	68	105	*	*
Abobo	46	*	*	87	68	105	-	-
Jor	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	*	*
Godare	*	*	-	-	-	-	*	*
Dima	-	-	-	-	-	-	-	-

TABLE 6.17.1: RURAL HOLDING

All Crops								
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied					
			Natural		Dap			
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal	
Gambela Killil	3862	636	3598	427	239	120		99
ZONE 1	1117	210	1103	210	*	*		*
Jikawo	710	150	699	150	*	*		*
Itang	380	55	380	55	-	-		-
Gambela	*	*	*	*	-	-		-
ZONE 2	2745	426	2495	217	228	120		98
Abobo	786	252	594	62	193	105		90
Jor	166	32	166	32	-	-		-
Gog	58	*	30	*	*	*		*
Godare	1734	127	1704	123	*	*		*

TABEL 6.17.1: CONTD.

All Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	81	21	*	87	68	105
ZONE 1	*	*	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	*	*	-	-	-	-
ZONE 2	78	21	*	87	68	105
Abobo	46	*	*	87	68	105
Jor	-	-	-	-	-	-
Gog	*	*	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.17.2: RURAL MEHER

All Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	3431	593	3151	384	239	120	99
ZONE 1	1117	210	1103	210	*	*	*
Jikawo	710	150	699	150	*	*	*
Itang	380	55	380	55	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	2314	383	2049	174	228	120	98
Abobo	762	245	554	56	193	105	90
Jor	97	24	97	24	-	-	-
Gog	58	*	30	*	*	*	*
Godare	1397	98	1368	94	*	*	*

TABEL 6.17.2: CONTD.

All Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	81	21	*	87	68	105
ZONE 1	*	*	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	*	*	-	-	-	-
ZONE 2	78	21	*	87	68	105
Abobo	46	*	*	87	68	105
Jor	-	-	-	-	-	-
Gog	*	*	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.17.3: RURAL BELG

All Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	599	43	599	43	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	599	43	599	43	-	-	-
Abobo	130	7	130	7	-	-	-
Jor	99	8	99	8	-	-	-
Gog	-	-	-	-	-	-	-
Godare	369	*	369	*	-	-	-

TABEL 6.17.4: URBAN HOLDINGS.

All Crops								
Geographic Area	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Gambela Killil	30	*	*	*	26	*	-	-
ZONE 1 Zone	*	*	*	*	*	*	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	*	*	*	*	*	*	-	-
ZONE 2 Zone	*	*	-	-	*	*	-	-
Gog	*	*	-	-	*	*	-	-
Godare	*	*	-	-	*	*	-	-
Dima	-	-	-	-	-	-	-	-

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

Grain Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2494	542	2230	328	199	117	98
ZONE 1	990	215	979	208	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	278	52	278	52	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1504	327	1251	120	199	117	98
Abobo	588	233	369	46	188	102	90
Jor	166	29	166	29	-	-	-
Gog	24	*	*	*	*	*	*
Godare	726	49	707	46	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.18 Contd.

Grain Crops								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical - DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Gambela Killil	50	*	*	87	68	105	21	*
ZONE 1	-	-	-	-	-	-	*	*
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	*	*
ZONE 2	50	*	*	87	68	105	*	*
Abobo	36	*	*	87	68	105	-	-
Jor	-	-	-	-	-	-	*	*
Gog	-	-	-	-	-	-	*	*
Godare	*	*	-	-	-	-	*	*
Dima	-	-	-	-	-	-	-	-

TABLE 6.18.1: RURAL HOLDING

Grain Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2469	529	2226	326	199	117	98
ZONE 1	975	206	975	206	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	278	52	278	52	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1494	323	1251	120	199	117	98
Abobo	588	233	369	46	188	102	90
Jor	166	29	166	29	-	-	-
Gog	*	*	*	*	*	*	*
Godare	721	47	707	46	-	-	-

TABLE 6.18.1: CONTD.

Grain Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	50	*	*	87	68	105
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	50	*	*	87	68	105
Abobo	36	*	*	87	68	105
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.18.2: RURAL MEHER

Grain Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2016	487	1751	284	199	117	98
ZONE 1	975	206	975	206	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	278	52	278	52	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1041	281	776	78	199	117	98
Abobo	554	226	314	39	188	102	90
Jor	97	21	97	21	-	-	-
Gog	*	*	*	*	*	*	*
Godare	370	19	356	18	-	-	-

TABLE 6.18.2: CONTD.

Grain Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	50	*	*	87	68	105
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	50	*	*	87	68	105
Abobo	36	*	*	87	68	105
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.18.3 : RURAL BELG

Grain Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	589	42	589	42	-	-	-
ZONE 1	485	54	485	54	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	461	*	461	*	-	-	-
ZONE 2	-	-	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	1910	82	1910	82	-	-	-

TABEL 6.18.4: URBAN HOLDINGS

Grain Crops								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Gambela Killil	25	*	*	*	21	*	-	-
ZONE 1 Zone	*	*	*	*	*	*	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	*	*	*	*	*	*	-	-
ZONE 2 Zone	*	*	-	-	*	*	-	-
Gog	*	*	-	-	*	*	-	-
Godare	*	*	-	-	*	*	-	-
Dima	-	-	-	-	-	-	-	-

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

Cereals							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2345	533	2080	319	199	117	98
ZONE 1	976	210	965	203	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	263	47	263	47	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1370	323	1115	116	199	117	98
Abobo	578	232	358	45	188	102	90
Jor	166	29	166	29	-	-	-
Gog	*	*	-	-	*	*	*
Godare	610	47	590	43	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.19 Contd.

Cereals								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Gambela Killil	50*	*	-	83	68	105	21*	-
ZONE 1	-	-	-	-	-	-	*	*
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	*	*
ZONE 2	50	*	*	83	68	105	*	*
Abobo	36	*	*	83	68	105	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	*	*
Godare	*	*	-	-	-	-	*	*
Dima	-	-	-	-	-	-	-	-

TABEL 6.19.1 RURAL HOLDING

Cereals							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2320	522	2076	319	199	117	98
ZONE 1	961	202	961	202	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	263	47	263	47	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1360	319	1115	116	199	117	98
Abobo	578	232	358	45	188	102	90
Jor	166	29	166	29	-	-	-
Gog	*	*	-	-	*	*	*
Godare	604	44	590	43	-	-	-

TABLE 6.19.1 CONTD.

Cereals						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	50 *	*	-	83	68	105
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	50	*	*	83	68	105
Abobo	36	*	*	83	68	105
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.19.2 RURAL MEHER

Cereals							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	1867	480	1601	277	199	117	98
ZONE 1	961	202	961	202	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	263	47	263	47	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	906	278	640	75	199	117	98
Abobo	545	226	303	39	188	102	90
Jor	97	21	97	21	-	-	-
Gog	*	*	-	-	*	*	*
Godare	254	17	240	16	-	-	-

TABEL 6.19..2 : CONTD.

Geographic Area	Cereals					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	50 *	*		83	68	105
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	50	*	*	83	68	105
Abobo	36	*	*	83	68	105
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.19.2a: Maize

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2199	459	1966	281	183	92	84
ZONE 1	940	192	940	192	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	253	42	253	42	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	1259	268	1026	90	183	92	84
Abobo	552	218	343	43	172	91	81
Jor	129	15	129	15	-	-	-
Gog	*	*	-	-	*	*	*
Godare	568	33	554	32	-	-	-

TABEL 6.19.2a: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	50 *	*		83	68	105
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	50	*	*	83	68	105
Abobo	36	*	*	83	68	105
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.19.2b: Sorghum

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	210	54	195	37	*	*	*
ZONE 1	38	*	38	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	27	5	27	5	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	172	44	157	26	*	*	*
Abobo	*	*	*	*	*	*	*
Jor	*	*	*	*	-	-	-
Gog	*	*	-	-	*	*	*
Godare	85	11	85	11	-	-	-

TABEL 6.19.2c : Rice

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	34	*	-	-	34	*	*
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	34	*	-	-	34	*	*
Abobo	34	*	-	-	34	*	*
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-

TABEL 6.19.3: RURAL BELG

Cereals							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	589	42	589	42	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	589	42	589	42	-	-	-
Abobo	130	6	130	6	-	-	-
Jor	99	8	99	8	-	-	-
Gog	-	-	-	-	-	-	-
Godare	360	*	360	*	-	-	-

TABEL 6.19.4: URBAN HOLDINGS

Cereals								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Gambela Killil	25	*	*	*	21	*	-	-
ZONE 1 Zone	*	*	*	*	*	*	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	*	*	*	*	*	*	-	-
ZONE 2 Zone	*	*	-	-	*	*	-	-
Gog	*	*	-	-	*	*	-	-
Godare	*	*	-	-	*	*	-	-
Dima	-	-	-	-	-	-	-	-

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

Pulses							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	297	5	293	5	-	-	-
ZONE 1	142	4	142	4	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	142	4	142	4	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	154	1	150	1	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	145	1	145	1	-	-	-
Dima	-	-	-	-	-	-	-

TABEL 6.20.1: RURAL HOLDING

Pulses							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	297	5	293	5	-	-	-
ZONE 1	142	4	142	4	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	142	4	142	4	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	154	1	150	1	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	145	1	145	1	-	-	-

TABEL 6.20.2: RURAL MEHER

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	266	5	262	5	-	-	-
ZONE 1	142	4	142	4	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	142	4	142	4	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	*	*	*	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABEL 6.20.2a : Haricot beans

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	193	4	189	4	-	-	-
ZONE 1	139	4	139	4	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	139	4	139	4	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	*	*	*	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

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

Oilseeds							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	24	*	18	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	*	*	*	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	-	-	-
Godare	-	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-

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

Other Grains							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	62	*	62	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	58	*	58	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.22.1: RURAL HOLDING

Other Grains							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	62	*	62	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	58	*	58	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.22.2: RURAL MEHER

Other Grains							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	50	*	50	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	46	*	46	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

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

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	1007	18	973	15	*	*	*
ZONE 1	14	*	14	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	14	*	14	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	994	18	960	15	*	*	*
Abobo	355	12	321	10	*	*	*
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	-	-	-
Godare	626	5	626	5	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.23.1: RURAL HOLDING

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	1007	18	973	15	*	*	*
ZONE 1	14	*	14	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	14	*	14	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	994	18	960	15	*	*	*
Abobo	355	12	321	10	*	*	*
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	-	-	-
Godare	626	5	626	5	-	-	-

TABLE 6.23.2: RURAL MEHER

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	960	17	926	15	*	*	*
ZONE 1	14	*	14	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	14	*	14	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	946	17	912	14	*	*	*
Abobo	355	12	321	10	*	*	*
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	-	-	-
Godare	578	5	578	5	-	-	-

TABLE 6.23.2a: Kale

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	529	*	529	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	522	*	522	*	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	522	*	522	*	-	-	-

TABLE 6.23.2b Tomatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	92	*	87	*	*	*	*
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	85	*	*	*	*	*	*
Abobo	85	*	*	*	*	*	*
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-

TABLE 6.23.2c: Green Peppers

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	74	*	64	*	*	*	*
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	74	*	64	*	*	*	*
Abobo	41	*	32	*	*	*	*
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.23.2d: Red peppers

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	57	*	57	*	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	57	*	57	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.23.2e: Other Vegetables

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	332	11	303	8	*	*	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	325	11	296	8	*	*	-
Abobo	255	10	226	8	*	*	-
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	-	-	-
Godare	*	*	*	*	-	-	-

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

Root Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	725	12	712	12	*	*	-
ZONE 1	91	1	88	1	-	-	-
Jikawo	*	*	*	*	-	-	-
Itang	79	1	79	1	-	-	-
Gambela	*	*	-	-	-	-	-
ZONE 2	633	11	623	11	*	*	-
Abobo	213	5	204	5	*	*	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	379	4	379	4	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.24.1: RURAL HOLDING

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	725	12	712	12*	*	-	-
ZONE 1	91	1	88	1	-	-	-
Jikawo	*	*	*	*	-	-	-
Itang	79	1	79	1	-	-	-
Gambela	*	*	-	-	-	-	-
ZONE 2	633	11	623	11	*	*	-
Abobo	213	5	204	5	*	*	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	379	4	379	4	-	-	-

TABLE 6.24.2: RURAL MEHER

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	704	12	691	12*	*	-	-
ZONE 1	91	1	88	1	-	-	-
Jikawo	*	*	*	*	-	-	-
Itang	79	1	79	1	-	-	-
Gambela	*	*	-	-	-	-	-
ZONE 2	613	11	603	11	*	*	-
Abobo	208	5	198	5	*	*	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	370	4	370	4	-	-	-

TABLE 6.24.2a: Taro ('Godere')

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	424	8	424	8	-	-	-
ZONE 1	83	1	83	1	-	-	-
Jikawo	*	*	*	*	-	-	-
Itang	74	1	74	1	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	341	6	341	6	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	279	*	279	*	-	-	-

TABLE 6.24.2b Sweet potatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	184	4	174	4	*	*	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	184	4	174	4	*	*	-
Abobo	162	4	152	*	*	*	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.24.2c: Other Root Crops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	*	*	*	*	-	-	-
ZONE 1	8	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	*	*	-	-	-	-	-
ZONE 2	*	*	*	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

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

Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	1643	76	1561	73	*	*	*
ZONE 1	212	2	201	2	*	*	*
Jikawo	*	*	*	*	*	*	*
Itang	175	2	175	2	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1431	74	1360	71	*	*	*
Abobo	251	*	241	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	32	*	*	*	*	*	*
Godare	1129	70	1084	67	*	*	*
Dima	-	-	-	-	-	-	-

TABLE 6.25 CONTD.

Permanent Crops								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Gambela Killil	42	*	*	-	-	-	*	*
ZONE 1	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	42	*	*	-	-	-	*	*
Abobo	*	*	*	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	-	-
Godare	*	*	-	-	-	-	*	*
Dima	-	-	-	-	-	-	-	-

TABLE 6.25.1: RURAL MEHER

Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	1643	76	1561	73	*	*	*
ZONE 1	212	2	201	2	*	*	*
Jikawo	*	*	*	*	*	*	*
Itang	175	2	175	2	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1431	74	1360	71	*	*	*
Abobo	251	*	241	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	32	*	*	*	*	*	*
Godare	1129	70	1084	67	*	*	*

TABLE 6.25.1 CONTD:

Permanent Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	42	*	*	-	-	-
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	42	*	*	-	-	-
Abobo	*	*	*	-	-	-
Jor	-	-	-	-	-	-
Gog	*	*	-	-	-	-
Godare	*	*	-	-	-	-

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

Fruit Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	798	8	735	7	*	*	*
ZONE 1	203	2	192	2	*	*	*
Jikawo	*	*	*	*	*	*	*
Itang	175	2	175	2	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	595	6	543	6	*	*	*
Abobo	241	*	231	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	32	*	*	*	*	*	*
Godare	302	2	277	2	*	*	*
Dima	-	-	-	-	-	-	-

TABLE 6.26 CONTD.

Fruit Crops								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Gambela Killil	81	21	*	87	68	105	26	*
ZONE 1	*	*	-	-	-	-	*	*
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	*	*	-	-	-	-	*	*
ZONE 2	78	21	*	87	68	105	*	*
Abobo	46	*	*	87	68	105	-	-
Jor	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	*	*
Godare	*	*	-	-	-	-	*	*
Dima	-	-	-	-	-	-	-	-

TABLE 6.26.1: RURAL MEHER

Fruit Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	798	8	735	7	*	*	*
ZONE 1	203	2	192	2	*	*	*
Jikawo	*	*	*	*	*	*	*
Itang	175	2	175	2	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	595	6	543	6	*	*	*
Abobo	241	*	231	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	32	*	*	*	*	*	*
Godare	302	2	277	2	*	*	*

TABLE 6.26.1a: Bananas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	313	3	297	3	*	*	*
ZONE 1	95	1	95	1	-	-	-
Jikawo	*	*	*	*	-	-	-
Itang	78	*	78	*	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	218	*	203	*	*	*	*
Abobo	-	-	-	-	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	198	1	183	1	*	*	*

TABLE 6.26.1b: Mangoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	300	2	282	2	*	*	*
ZONE 1	127	1	127	1	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	127	1	127	1	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	173	1	155	1	*	*	*
Abobo	68	*	58	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	*	*	*
Godare	91	*	91	*	-	-	-

TABLE 6.26.1b: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	*	*	*	-	-	-
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	*	*	*	-	-	-
Abobo	*	*	*	-	-	-
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	-	-	-	-	-	-

TABLE 6.26.1c: Papayas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	449	2	412	2	*	*	*
ZONE 1	127	*	116	*	*	*	*
Jikawo	*	*	-	-	*	*	*
Itang	116	*	116	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	322	2	296	*	*	*	*
Abobo	141	*	141	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	32	*	*	*	*	*	*
Godare	*	*	*	*	-	-	-

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

Stimulant Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	324	10	304 *	-	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	324	10	304	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	306	10	286	*	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.27.1: RURAL MEHER

Stimulant Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	318	10	304	*	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	318	10	304	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	300	10	286	*	-	-	-

TABLE 6.27.1a: Coffee

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	214	10	201	*	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	214	10	201	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	197	10	183	*	-	-	-

TABLE 6.28: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN ASREAS, FOR MEHER SEASON

Other Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	939	58	939	58	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	927	58	927	58	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	918	58	918	58	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.28.1: RURAL MEHER

Other Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	939	58	939	58	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	927	58	927	58	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	918	58	918	58	-	-	-

TABLE 6.28.1a: Enset

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	805	56	805	56	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	805	56	805	56	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	805	56	805	56	-	-	-

TABLE 6.28.1b: Sugar Cane

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	355	2	355	2	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	352	2	352	2	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	352	2	352	2	-	-	-

TABLE 6.28.1c: Other of Other Permanent Crops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	118	*	118	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	110	*	110	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

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
Gambela Killil	1661	58	662	58	602	57	-	-
ZONE 1	127	*	74	*	53	*	-	-
Jikawo	*	*	*	*	*	*	-	-
Itang	19	*	13	*	*	*	-	-
Gambela	88	*	*	*	*	*	-	-
ZONE 2	1534	55	588	55	550	55	-	-
Abobo	396	43	335	43	335	43	-	-
Jor	*	-	*	-	*	-	-	-
Gog	111	11	104	11	83	11	-	-
Godare	1022	*	145	*	128	*	-	-
	Barley		Wheat		Maize		Sorghum	
Gambela Killil	-	-	-	-	481	41	180	9
ZONE 1	-	-	-	-	*	*	*	*
Jikawo	-	-	-	-	-	-	*	*
Itang	-	-	-	-	*	*	-	-
Gambela	-	-	-	-	*	-	*	*
ZONE 2	-	-	-	-	460	41	149	6
Abobo	-	-	-	-	*	*	*	*
Jor	-	-	-	-	*	-	-	-
Gog	-	-	-	-	74	8	40	*
Godare	-	-	-	-	*	-	87	*

TABLE 6.28: CONTD.

Geographic Area	Millet		Rice		Pulse		Horse bean	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Gambela Killil	*	-	-	-	*	*	50	*
ZONE 1	-	-	-	-	-	-	*	*
Jikawo	-	-	-	-	-	-	*	*
Itang	-	-	-	-	-	-	*	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	*	-	-	-	*	*	*	-
Abobo	*	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	*	-
Godare	-	-	-	-	-	-	*	-
	Field peas		Haricot Beans		Chick peas		Soya beans	
Gambela Killil	-	-	-	-	50	*	-	-
ZONE 1	-	-	-	-	*	*	-	-
Jikawo	-	-	-	-	*	*	-	-
Itang	-	-	-	-	*	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	-	-	-	-	*	-	-	-
Abobo	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	*	-	-	-
Godare	-	-	-	-	*	-	-	-

TABLE 6.28: CONTD.

Geographic Area	Number of Holders who used Improved Seeds						
	Permanent	Fruit Crop	Avocado	Banana	Guavas (Zeytuna)	Lemons	Mango
Gambela Killil	955	181	45	*	*	-	*
ZONE 1	*	*	-	*	*	-	*
Jikawo	-	-	-	-	-	-	-
Itang	*	*	-	-	-	-	*
Gambela	*	*	-	*	*	-	-
ZONE 2	923	149	45	*	*	-	*
Abobo	*	*	-	-	*	-	*
Jor	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	-
Godare	877	103	45	*	-	-	*

TABLE 6.28: CONTD

Geographic Area	Number of Holders who used Improved Seeds							
	Orange	Papaya	Other Fruits	Stimulant	Coffee	Other Permanent	Sugar Cane	Enset
Gambela Killil	*	30	-	828	828	*	*	-
ZONE 1	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	*	30	-	828	828	*	*	-
Abobo	-	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	*	-	-	-	-	-	-
Godare	*	-	-	828	828	*	*	-

TABLE 6.29: Holders Applying Agricultural Inputs and Participating in Extension Programs by Level of Education in Rural and Urban Areas, for Private Holdings

[illegible]

TABLE 6.29.1: RURAL HOLDINGS

[illegible]

TABLE 6.29.2: RURAL MEHER

[illegible]

TABLE 6.29.3: RURAL BELG

[illegible]

TABLE 6.29.4: URBAN HOLDINGS

[illegible]

[illegible]

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

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	31109	19173	1241	581	1069	1456	1518	1621	1403	1015	734	337	191	90	434	247
ZONE 1	12204	9025	214	154	285	269	371	437	415	400	230	80	34	33	146	111
Jikawo	5275	4597	112 *		96	69	85	49	123	72	28	-	-	-	*	
Itang	4111	2746	48	73	95	100	137	219	146	215	154	47 *	*		59	43
Gambela	2818	1682	54	50	94	101	149	169	147	113	49	33	18	19	87	54
ZONE 2	18905	10148	1027	428	783	1187	1147	1184	987	615	504	257	157	57	287 *	
Abobo	3736	2144	83	23	140	173	174	190	233	158	98 *	*	*	*	45 *	
Jor	1041	832 *	-	*	*	*	*	*	*	*	*	-	-	-	-	-
Gog	2745	1863	34 *		42	69	94	123	175	111	84	28	22	21	72	-
Godare	11377	5308	892	396	593	915	872	846	559	303	264	157 *	*		169	29

TABLE 6.30.1: RURAL

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	29497	18307	1184	565	1029	1435	1450	1574	1359	961	654	317	165	56	244	199
ZONE 1	11264	8464	193	145	263	256	336	413	407	380	198	73	*	*	30	87
Jikawo	5275	4597	112	*	96	69	85	49	123	72	28	-	-	-	-	*
Itang	3701	2412	48	73	95	100	137	212	146	215	154	42	*	*	15	43
Gambela	2288	1455	*	41	73	87	114	151	139	92	*	*	*	*	*	*
ZONE 2	18233	9843	991	419	766	1179	1114	1160	952	581	456	244	153	49	214	*
Abobo	3736	2144	83	23	140	173	174	190	233	158	98	*	*	*	45	*
Jor	1041	832	*	-	*	*	*	*	*	*	*	-	-	-	-	-
Gog	2550	1727	34	*	42	69	86	123	170	106	70	24	*	*	57	-
Godare	10906	5139	855	388	576	908	846	823	529	276	231	*	*	-	112	*

TABLE 6.30.2: RURAL MEHER

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	29188	18111	1180	556	1022	1413	1432	1551	1344	955	648	317	165	56	244	195
ZONE 1	11191	8424	193	137	256	252	336	410	400	380	198	73	*	*	30	175
Jikawo	5275	4597	112	*	96	69	85	49	123	72	28	-	-	-	-	-
Itang	3675	2404	48	70	92	96	137	212	142	215	154	42	*	*	15	-
Gambela	2240	1423	*	36	69	87	114	149	136	92	*	*	*	*	*	-
ZONE 2	17997	9687	986	419	766	1162	1096	1140	944	575	450	244	153	49	214	-
Abobo	3736	2144	83	23	140	173	174	190	233	158	98	*	*	*	45	*
Jor	1013	808	*	-	*	*	*	*	*	*	*	-	-	-	-	99
Gog	2474	1676	34	*	42	69	86	112	170	100	63	24	*	*	57	*
Godare	10774	5060	855	388	576	890	829	813	521	276	231	*	*	-	112	*

TABLE 6.30.3: RURAL BELG

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	14474	7759	848	373	553	874	977	1041	705	524	309	167	88	16	171	*
ZONE 1	2864	1745	*	49	106	109	165	195	103	180	81	42	*	*	*	33
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	1268	732	*	27	48	26	68	77	30	119	68	30	*	*	*	21
Gambela	1596	1014	*	*	58	83	97	118	74	61	*	*	*	*	*	*
ZONE 2	11610	6013	830	324	447	765	812	846	602	344	228	125	76	*	153	*
Abobo	635	301	*	*	35	*	*	58	60	*	*	*	*	-	*	*
Jor	478	422	*	-	*	*	*	*	*	*	-	-	-	-	-	-
Gog	1622	1076	34	*	*	45	71	84	110	74	39	*	-	*	41	-
Godare	8874	4215	760	306	391	691	714	693	427	235	173	*	*	-	107	-

TABLE 6.30.4: URBAN HOLDINGS

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11		Above Grade 12
															Grade 12	
Gambela Killil	1611	866	58	17	39	21	68	48	44	53	80	20	26	34	190	48
ZONE 1	940	561	21	*	22	13	35	24	8	20	32	*	22	26	116	24
Itang	410	334	-	-	-	-	-	*	-	-	-	*	*	*	44	-
Gambela	530	227	21	*	22	13	35	17	8	20	32	*	12	15	72	24
ZONE 2	672	305	37	*	17	*	34	23	35	33	48	13	*	*	73	24
Gog	196	135	-	-	-	-	*	-	*	*	*	*	*	*	15	-
Godare	471	169	37	*	17	*	25	23	30	28	33	*	-	*	57	24
Dima	5	1	-	-	-	-	-	-	-	1	1	1	-	-	1	-

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 Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	1849	860	*	87	*	120	182	150	108	101	80	*	*	*	26	*
ZONE 1	201	83	-	-	*	*	*	*	*	-	-	*	*	-	*	*
Jikawo	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Itang	42	23	-	-	-	-	-	-	-	-	-	*	*	-	*	*
Gambela	139	57	-	-	*	*	*	*	*	-	-	-	-	-	*	*
ZONE 2	1648	777	*	87	*	109	147	122	104	101	80	*	-	*	*	-
Abobo	410	251	-	*	*	*	*	*	*	*	*	-	-	*	-	-
Jor	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	117	55	-	-	-	*	-	*	*	*	-	-	-	-	*	-
Godare	1116	467	*	83	*	61	138	83	*	*	*	*	-	*	-	-

TABLE 6.31.1: RURAL HOLDINGS

Geographic Area	Holders Applying Improved Seeds														
	All Holders	Grades Completed by Holder													
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Above Grade 12
Gambela Killil	1763	825	*	87	*	120	172	142	104	101	76	*	*	*	*
ZONE 1	164	71	-	-	*	*	*	*	-	-	-	-	*	-	*
Jikawo	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-
Itang	32	23	-	-	-	-	-	-	-	-	-	-	*	-	*
Gambela	112	45	-	-	*	*	*	*	-	-	-	-	-	-	*
ZONE 2	1599	755	*	87	*	109	143	115	104	101	76	*	-	*	-
Abobo	410	251	-	*	*	*	*	*	*	*	*	-	-	*	-
Jor	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	117	55	-	-	-	*	-	*	*	*	-	-	-	-	*
Godare	1067	445	*	83	*	61	133	75	*	*	*	*	-	-	-

TABLE 6.31.2: RURAL MEHER

Geographic Area	Holders Applying Improved Seeds														
	All Holders	Grades Completed by Holder													
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Above Grade 12
Gambela Killil	1661	810	*	70	*	120	168	142	98	69	76	*	-	*	-
ZONE 1	127	55	-	-	*	*	*	*	-	-	-	-	-	-	-
Jikawo	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-
Itang	19	19	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	88	*	-	-	*	*	*	*	-	-	-	-	-	-	-
ZONE 2	1534	755	*	70	*	109	139	115	98	69	76	*	-	*	-
Abobo	396	251	-	*	-	*	*	*	*	-	*	-	-	*	-
Jor	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	111	55	-	-	-	*	-	*	*	*	-	-	-	-	*
Godare	1022	445	*	*	*	61	133	75	*	*	*	*	-	-	-

TABLE 6.31.3: RURAL BELG

Geographic Area	Holders Applying Improved Seeds															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11		Above Grade 12
															Grade 12	
Gambela Killil	106	20	-	*	*	-	*	-	*	*	-	-	*	-	-	*
ZONE 1	37	*	-	-	*	-	-	-	-	-	-	-	*	-	-	*
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	*	-	-	-	-	-	-	-	-	-	-	*	-	-	*
Gambela	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-	*
ZONE 2	*	*	-	*	*	-	*	-	*	*	-	-	-	-	-	-
Abobo	*	*	-	-	*	-	*	-	-	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Godare	*	-	-	*	-	-	-	-	-	*	-	-	-	-	-	-

TABLE 6.31.4: URBAN HOLDINGS

[illegible]

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

Geographic Area	Holders With Irrigation															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	128	*	-	-	*	*	-	-	*	*	*	-	*	*	*	-
ZONE 1	63	*	-	-	-	*	-	-	*	*	-	-	-	-	*	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	3	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Gambela	55	*	-	-	-	*	-	-	*	*	-	-	-	-	*	-
ZONE 2	*	*	-	-	*	*	-	-	-	-	*	-	*	*	-	-
Abobo	*	*	-	-	*	-	-	-	-	-	*	-	*	*	-	-
Jor	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	*	*	-	-	-	-	-	-	-	-	*	-	-	-	-	-

TABLE 6.32.1: RURAL HOLDINGS

[illegible]

TABLE 6.32.2: RURAL MEHER

Geographic Area	Holders Practicing Irrigation															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	99	*	-	-	*	*	-	-	*	*	-	-	-	*	-	-
ZONE 1	52	*	-	-	-	*	-	-	*	*	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	3	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Gambela	*	*	-	-	-	*	-	-	*	*	-	-	-	-	-	-
ZONE 2	*	*	-	-	*	*	-	-	-	-	-	-	-	*	-	-
Abobo	*	*	-	-	*	-	-	-	-	-	-	-	-	*	-	-
Jor	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Geographic Area	Holders Applying Fertilizers															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	3892	2317	109	115	169	154	236	227	164	97	96	30	*	*	79	*
ZONE 1	1132	894	-	*	24	*	47	25	16	37	44	15	-	-	*	120
Jikawo	710	654	-	-	*	-	-	*	*	*	*	-	-	-	-	-
Itang	380	218	-	*	*	*	39	16	*	28	35	15	-	-	4	-
Gambela	42	*	-	-	-	*	*	-	-	-	-	-	-	-	*	*
ZONE 2	2760	1422	109	109	144	145	188	202	148	60	*	*	*	*	70	-
Abobo	786	428	*	*	47	*	43	58	41	*	*	*	*	*	*	*
Jor	166	139	*	-	*	-	*	*	*	-	-	-	-	-	-	64
Gog	63	46	-	-	-	-	-	-	-	*	-	-	-	-	*	*
Godare	1745	809	90	*	93	119	141	139	97	*	*	*	*	-	56	*

TABLE 6.33.1: RURAL HOLDINGS

Geographic Area	Holders Applying Fertilizers															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	3862	2303	109	115	169	154	230	227	164	97	96	30	*	*	68	*
ZONE 1	1117	891	-	*	24	*	42	25	16	37	44	15	-	-	4	*
Jikawo	710	654	-	-	*	-	-	*	*	*	*	-	-	-	-	-
Itang	380	218	-	*	*	*	39	16	*	28	35	15	-	-	4	*
Gambela	*	*	-	-	-	*	*	-	-	-	-	-	-	-	-	-
ZONE 2	2745	1412	109	109	144	145	188	202	148	60	*	*	*	*	64	*
Abobo	786	428	*	*	47	*	43	58	41	*	*	*	*	*	*	*
Jor	166	139	*	-	*	-	*	*	*	-	-	-	-	-	-	-
Gog	58	42	-	-	-	-	-	-	-	*	-	-	-	-	*	-
Godare	1734	803	90	*	93	119	141	139	97	*	*	*	*	-	*	*

TABLE 6.33.2: RURAL MEHER

Geographic Area	Holders Applying Fertilizer															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	3431	2085	76	115	159	144	177	213	140	88	75	20	*	*	68	*
ZONE 1	1117	891	-	*	24	*	42	25	16	37	44	15	-	-	4	*
Jikawo	710	654	-	-	*	-	-	*	*	*	*	-	-	-	-	-
Itang	380	218	-	*	*	*	39	16	*	28	35	15	-	-	4	*
Gambela	*	*	-	-	-	*	*	-	-	-	-	-	-	-	-	-
ZONE 2	2314	1194	76	109	135	136	135	188	124	50	*	*	*	*	64	*
Abobo	762	404	*	*	47	*	43	58	41	*	*	*	*	*	*	*
Jor	97	84	-	-	*	-	*	-	*	-	-	-	-	-	-	-
Gog	58	42	-	-	-	-	-	-	-	*	-	-	-	-	*	-
Godare	1397	664	61	*	*	110	87	129	*	*	*	-	-	-	*	*

TABLE 6.33.3: RURAL BELG

[illegible]

TABLE 6.33.4: URBAN HOLDINGS

[illegible]

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

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	959	431	108	-	*	65	62	50	*	*	23	*	*	*	*	*
ZONE 1	116	47	*	-	*	1	*	*	*	-	*	-	-	*	*	*
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	109	40	*	-	*	1	*	*	*	-	*	-	-	*	*	*
ZONE 2	843	384	93	-	*	64	56	48	*	*	*	*	*	-	*	*
Abobo	279	112	*	-	*	29	21	*	*	-	*	*	*	-	*	*
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	-	-	-	-	*	-	-	-	-	-
Godare	550	263	66	-	-	*	*	*	*	*	-	*	-	-	*	-

TABLE 6.34.1: RURAL HOLDINGS

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	869	403	105	-	*	64	56	48	*	*	*	*	*	-	*	*
ZONE 1	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
ZONE 2	838	384	93	-	*	64	56	48	*	*	*	*	*	-	*	*
Abobo	279	112	*	-	*	29	21	*	*	-	*	*	*	-	*	*
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	550	263	66	-	-	*	*	*	*	*	-	*	-	-	*	-

TABLE 6.34.2: RURAL MEHER

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate But not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	350	140	50	-	*	29	21	*	*	-	*	*	*	-	*	*
ZONE 1	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
ZONE 2	319	121	39	-	*	29	21	*	*	-	*	*	*	-	*	*
Abobo	279	112	*	-	*	29	21	*	*	-	*	*	*	-	*	*
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	*	-	*	-	-	-	-	-	-	-	-	-	-	-	*	-

TABLE 6.34.3: RURAL BELG

TABLE 6.5.4.5: RURAL DEES

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	519	263	54	-	-	*	*	*	*	*	-	*	-	-	*	-
ZONE 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZONE 2	519	263	54	-	-	*	*	*	*	*	-	*	-	-	*	-
Abobo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	519	263	54	-	-	*	*	*	*	*	-	*	-	-	*	-

TABLE 6.34.4: URBAN HOLDINGS

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	90	28	*	-	*	1	*	*	*	-	*	-	-	*	*	*
ZONE 1	85	28	*	-	*	1	*	*	*	-	*	-	-	*	*	*
Itang	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	85	28	*	-	*	1	*	*	*	-	*	-	-	*	*	*
ZONE 2	*	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	275	65	*	-	*	*	*	*	*	11	*	-	*	-	-	*
ZONE 1	39	*	-	-	-	-	*	-	-	7	-	-	*	-	-	*
Jikawo	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	27	*	-	-	-	-	*	-	-	7	-	-	-	-	-	*
Gambela	*	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-
ZONE 2	236	48	*	-	*	*	*	*	*	*	*	-	-	-	-	*
Abobo	132	37	*	-	*	-	*	*	*	*	*	-	-	-	-	*
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	103	*	-	-	*	*	*	-	*	-	-	-	-	-	-	-

TABLE 6.35.1: RURAL MEHER

Geographic Area	Holders Participating in Agricultural Extension															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	245	61	*	-	*	*	*	*	*	7	*	-	*	-	-	*
ZONE 1	39	*	-	-	-	-	*	-	-	7	-	-	*	-	-	*
Jikawo	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	27	*	-	-	-	-	*	-	-	7	-	-	-	-	-	*
Gambela	*	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-
ZONE 2	206	44	*	-	*	*	*	*	*	-	*	-	-	-	-	-
Abobo	103	33	*	-	*	-	*	*	*	-	*	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	103	*	-	-	*	*	*	-	*	-	-	-	-	-	-	-

TABLE 6.36: CROP AREA (HECTARES) DAMAGED BY CROP DISEASE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Total Area Damaged							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	1507	23	337	413	432	275	*	-
ZONE 1	160	8	104	39	7	*	-	-
Jikawo	54	1	33	19	*	-	-	-
Itang	60	3	40	10	*	-	-	-
Gambela	46	3	31	10	-	*	-	-
ZONE 2	1347	16	234	374	425	273	*	-
Abobo	462	3	59	128	160	108	*	-
Jor	84	3	41	36	*	-	-	-
Gog	215	4	59	58	47	47	-	-
Godare	585	7	74	152	213	117	*	-

TABLE 6.36.1: MEHER

Geographic Area	Total Area Damaged							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	1417	16	290	396	415	274	*	-
ZONE 1	131	5	84	33	7	*	-	-
Jikawo	54	1	33	19	*	-	-	-
Itang	49	1	32	9	*	-	-	-
Gambela	28	2	19	*	-	*	-	-
ZONE 2	1286	11	206	363	408	271	*	-
Abobo	461	3	59	128	160	108	*	-
Jor	63	1	30	*	*	-	-	-
Gog	196	3	47	54	45	47	-	-
Godare	566	5	72	150	202	116	*	-

TABLE 6.36.2: BELG

Geographic Area	Total Area Damaged							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	90	15	64	*	*	-	-	-
ZONE 1	29	3	25	*	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	11	2	8	*	-	-	-	-
Gambela	18	*	17	*	-	-	-	-
ZONE 2	61	12	39	*	*	-	-	-
Abobo	1	1	*	-	-	-	-	-
Jor	21	5	16	-	-	-	-	-
Gog	19	4	12	*	*	-	-	-
Godare	19	*	11	*	*	-	-	-

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
Gambela Killil	315	3	100	105	78	29	-	-
ZONE 1	68	2	46	18	2	-	-	-
Jikawo	40	*	25	14	*	-	-	-
Itang	21	1	16	2	2	-	-	-
Gambela	*	*	*	*	-	-	-	-
ZONE 2	247	1	54	87	75	29	-	-
Abobo	68	*	9	19	26	14	-	-
Jor	45	*	*	*	-	-	-	-
Gog	56	*	18	20	14	3	-	-
Godare	78	*	8	22	35	*	-	-

TABLE 6.37.1: 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
Gambela Killil	298	3	93	103	71	29	-	-
ZONE 1	63	1	42	18	2	-	-	-
Jikawo	40	*	25	14	*	-	-	-
Itang	19	1	15	2	2	-	-	-
Gambela	4	*	*	*	-	-	-	-
ZONE 2	235	1	51	85	68	29	-	-
Abobo	68	*	9	19	26	13	-	-
Jor	44	*	*	*	-	-	-	-
Gog	54	*	16	20	14	3	-	-
Godare	69	*	7	21	28	*	-	-

TABLE 6.37.2: 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
Gambela Killil	17	2	9	*	-	-	-	-
ZONE 1	*	*	*	*	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	2	*	1	*	-	-	-	-
Gambela	*	*	*	-	-	-	-	-
ZONE 2	*	*	5	*	-	-	-	-
Abobo	*	*	*	-	-	-	-	-
Jor	*	*	*	-	-	-	-	-
Gog	2	-	2	-	-	-	-	-
Godare	*	*	*	*	-	-	-	-

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
Gambela Killil	127 *		31	29	47	17 *	-	-
ZONE 1	12	*	11	*	-	-	-	-
Jikawo	*	-	*	-	-	-	-	-
Itang	2	*	2	*	-	-	-	-
Gambela	*	*	*	*	-	-	-	-
ZONE 2	115	*	20	28	47	17	*	-
Abobo	34	*	*	16	*	*	*	-
Jor	*	*	*	-	-	-	-	-
Gog	23	*	3	*	*	*	-	-
Godare	56	*	13	11	20	*	-	-

TABLE 6.38.1: 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
Gambela Killil	126	*	30	29	47	17	*	-
ZONE 1	11	*	10	*	-	-	-	-
Jikawo	*	-	*	-	-	-	-	-
Itang	2	*	1	*	-	-	-	-
Gambela	*	*	*	*	-	-	-	-
ZONE 2	114	*	20	28	47	17	*	-
Abobo	34	*	*	16	*	*	*	-
Jor	*	*	*	-	-	-	-	-
Gog	23	*	3	*	*	*	-	-
Godare	56	*	13	11	20	*	-	-

TABLE 6.38.2: 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
Gambela Killil	1 *	*	-	-	-	-	-	-
ZONE 1	1	*	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	*	*	-	-	-	-	-
Gambela	*	-	*	-	-	-	-	-
ZONE 2	*	*	*	-	-	-	-	-
Abobo	*	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	*	*	*	-	-	-	-	-

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
Gambela Killil	364	6	73	109	105	70 *	-	-
ZONE 1	32	4	19	*	*	*	-	-
Jikawo	4	*	*	*	-	-	-	-
Itang	7	*	6	*	*	-	-	-
Gambela	20	2	11	*	-	*	-	-
ZONE 2	332	2	53	102	105	68	*	-
Abobo	199	2	32	54	69	42	*	-
Jor	*	*	*	*	-	-	-	-
Gog	59	*	7	24	9	*	-	-
Godare	62	*	7	19	27	8	-	-

TABLE 6.39.1: 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
Gambela Killil	353	5	68	106	104	70 *	-	-
ZONE 1	24	3	15	*	*	*	-	-
Jikawo	4	*	*	*	-	-	-	-
Itang	7	*	5	*	*	-	-	-
Gambela	14	*	7	*	-	*	-	-
ZONE 2	329	2	53	101	104	68	*	-
Abobo	199	2	32	54	69	42	*	-
Jor	*	*	*	*	-	-	-	-
Gog	59	*	7	24	9	*	-	-
Godare	59	*	7	18	26	*	-	-

TABLE 6.39.2: 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
Gambela Killil	*	1	*	*	*	-	-	-
ZONE 1	*	*	*	*	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	1	*	1	-	-	-	-	-
Gambela	*	*	*	*	-	-	-	-
ZONE 2	*	*	*	-	*	-	-	-
Abobo	*	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	*	*	*	-	*	-	-	-

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
Gambela Killil	32	*	13	10	9	*	-	-
ZONE 1	*	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	*	*	-	*	-	-	-
Gambela	*	-	*	*	-	-	-	-
ZONE 2	31	-	12	10	9	*	-	-
Abobo	*	-	*	*	*	*	-	-
Jor	*	-	*	*	-	-	-	-
Gog	11	-	*	-	*	-	-	-
Godare	*	-	*	*	*	-	-	-

TABLE 6.40.1: 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
Gambela Killil	31	*	12	10	9	*	-	-
ZONE 1	*	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	*	*	-	*	-	-	-
Gambela	*	-	-	*	-	-	-	-
ZONE 2	31	-	12	10	9	*	-	-
Abobo	*	-	*	*	*	*	-	-
Jor	*	-	*	*	-	-	-	-
Gog	11	-	*	-	*	-	-	-
Godare	*	-	*	*	*	-	-	-

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
Gambela Killil	433 *		45	101	134	122 *		-
ZONE 1	*	-	*	-	*	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	-	*	-	*	-	-	-
Gambela	*	-	*	-	-	-	-	-
ZONE 2	430	*	43	101	134	122	*	-
Abobo	75	*	*	13	19	*	*	-
Jor	*	-	*	-	-	-	-	-
Gog	*	-	-	-	-	*	-	-
Godare	353	*	38	88	116	85	*	-

TABLE 6.41.1: 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
Gambela Killil	428	4	45	101	131	122	*	-
ZONE 1	*	-	*	-	*	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	-	*	-	*	-	-	-
Gambela	*	-	*	-	-	-	-	-
ZONE 2	426	4	43	101	131	122	*	-
Abobo	75	*	*	13	19	*	*	-
Jor	*	-	*	-	-	-	-	-
Gog	*	-	-	-	-	*	-	-
Godare	349	*	38	88	113	84	*	-

TABLE 6.41.2: 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
Gambela Killil	*	*	*	*	-	-	-	-
ZONE 1	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	*	*	*	*	-	-	-	-
Abobo	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-	-

TABLE 6.42: 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
Gambela Killil	53	*	15	11	10	*	-	-
ZONE 1	*	*	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	*	*	-	-	-	-	-
Gambela	*	-	*	-	-	-	-	-
ZONE 2	53	*	15	11	10	*	-	-
Abobo	*	*	*	*	*	-	-	-
Jor	*	*	*	*	*	-	-	-
Gog	40	*	11	7	5	*	-	-
Godare	9	*	*	*	*	*	-	-

TABLE 6.42.1: 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
Gambela Killil	53	*	15	11	10	*	-	-
ZONE 1	*	*	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	*	*	-	-	-	-	-
Gambela	*	-	*	-	-	-	-	-
ZONE 2	53	*	15	11	10	*	-	-
Abobo	*	*	*	*	*	-	-	-
Jor	*	*	*	*	*	-	-	-
Gog	40	*	11	7	5	*	-	-
Godare	9	*	*	*	*	*	-	-

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

Geographic Area	Area Damaged by Insect and Pests							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	6	-	*	2	-	*	-	-
ZONE 1	4	-	*	2	-	-	-	-
Jikawo	3	-	*	*	-	-	-	-
Itang	*	-	-	*	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	*	-	*	-	-	*	-	-
Abobo	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	*	-	*	-	-	*	-	-
Godare	-	-	-	-	-	-	-	-

TABLE 6.43.1: MEHER

Geographic Area	Area Damaged by Insect and Pests							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	6	-	*	2	-	*	-	-
ZONE 1	4	-	*	2	-	-	-	-
Jikawo	3	-	*	*	-	-	-	-
Itang	*	-	-	*	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	*	-	*	-	-	*	-	-
Abobo	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	*	-	*	-	-	*	-	-
Godare	-	-	-	-	-	-	-	-

TABLE 6.44: CROP AREA (HECTARES) DAMAGED BY WEEDS AND TOTAL SIZE OF HOLDING IN RURAL

AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	167	5	57	46	40	*	-	-
ZONE 1	41	2	23	11	*	-	-	-
Jikawo	*	*	*	*	-	-	-	-
Itang	28	1	16	6	*	-	-	-
Gambela	8	*	*	*	-	-	-	-
ZONE 2	126	3	35	35	35	*	-	-
Abobo	74	*	8	21	*	*	-	-
Jor	22	2	13	4	*	-	-	-
Gog	22	*	11	5	2	*	-	-

TABLE 6.44.1: 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
Gambela Killil	112	1	23	34	35	*	-	-
ZONE 1	25	1	12	8	*	-	-	-
Jikawo	*	*	*	*	-	-	-	-
Itang	20	*	10	5	*	-	-	-
Gambela	*	*	*	*	-	-	-	-
ZONE 2	86	*	12	26	*	*	-	-
Abobo	74	*	8	21	*	*	-	-
Jor	*	-	*	-	-	-	-	-
Gog	*	-	-	*	-	*	-	-
Godare	*	*	*	*	*	*	-	-

TABLE 6.44.2: 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
Gambela Killil	55	12	40	*	*	-	-	-
ZONE 1	15	2	13	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	8	2	6	-	-	-	-	-
Gambela	*	*	*	-	-	-	-	-
ZONE 2	40	10	27	*	*	-	-	-
Abobo	*	*	-	-	-	-	-	-
Jor	20	5	*	-	-	-	-	-
Gog	17	4	10	*	*	-	-	-
Godare	*	-	*	-	-	-	-	-

TABLE 6.45: 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
Gambela Killil	1	*	*	*	*	*	-	-
ZONE 1	*	*	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	-	*	-	-	-	-	-
Gambela	*	*	*	-	-	-	-	-
ZONE 2	1	*	*	*	*	*	-	-
Abobo	*	-	*	*	-	*	-	-
Jor	*	*	*	*	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	*	*	*	*	*	-	-	-

TABLE 6.45.1: 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
Gambela Killil	1 *		*	-	-	-	-	-
ZONE 1	*		-	*	-	-	-	-
Jikawo	-		-	-	-	-	-	-
Itang	-		-	-	-	-	-	-
Gambela	*		-	*	-	-	-	-
ZONE 2	1		*	*	-	-	-	-
Abobo	*		*	-	-	-	-	-
Jor	*		*	-	-	-	-	-
Gog	-		-	-	-	-	-	-
Godare	*		*	*	-	-	-	-

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

Geographic Area	Source of Water			
	River	Lake	Pond	Others
Gambela Killil	555	81	457*	
ZONE 1	165	10	155	-
Jikawo	*	-	*	-
Itang	105	*	99	-
Gambela	*	*	*	-
ZONE 2	390	*	302	*
Abobo	155	*	145	-
Jor	-	-	-	-
Gog	37	-	37	-
Godare	198	*	120	*

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

Geographic Area	Method to Improve Soil Fertility	
	Crop Rotation	Burning of Soil
Gambela Killil	9668	594
ZONE 1	1093	365
Jikawo	*	-
Itang	413	185
Gambela	663	180
ZONE 2	8575	229
Abobo	1103	149
Jor	559	*
Gog	314	43
Godare	6599	*

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

Geographic Area	Reason for not Using Chemical Fertilizer						
	Do not Know the Advantage	Too Expensive	Shortage of	Insufficient	No Credit Service	Suspicious of its Efficiency	Others
			Money	Supply			
Gambela Killil	10256	359	3018	9559	140	376	9394
ZONE 1	4849	87	1023	4007	*	*	2183
Jikawo	2869	-	*	1824	-	-	-
Itang	1417	40	413	1242	-	3	1379
Gambela	563	47	603	941	*	*	804
ZONE 2	5407	273	1995	5552	125	370	7211
Abobo	344	35	1208	1541	*	*	1357
Jor	361	-	-	591	-	-	*
Gog	1507	26	92	586	106	-	281
Godare	3196	212	695	2834	-	341	5568

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

Geographic Area	Method of Plowing				
	Hand	Ox/Horse	Tractor	Hand Dung	Tractor
	Dung	Driven		and Ox/Horse	and Ox/horse
				Driven	Driven
Gambela Killil	24668	923	-	1065	58
ZONE 1	8852	*	-	*	*
Jikawo	2753	-	-	*	-
Itang	3798	*	-	*	8
Gambela	2302	*	-	*	*
ZONE 2	15816	892	-	1016	38
Abobo	2021	674	-	847	*
Jor	1170	-	-	*	-
Gog	2629	*	-	*	*
Godare	9995	*	-	139	-

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

Geographic Area	Method of Soil Conservation				
	Terracing	Water Catchment	Afforestation	Plowing along The Counter	Others
Gambela Killil	485	269	414	348	883
ZONE 1	168	143	17	35	682
Jikawo	*	-	-	-	*
Itang	147	140	13	28	503
Gambela	*	*	*	*	*
ZONE 2	317	126	397	313	*
Abobo	30	*	*	224	*
Jor	*	-	-	*	-
Gog	190	72	-	-	*
Godare	86	*	*	*	*

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

Geographic Area	Rain Shortage Areas	Rain Abundant Areas	Post Harvest Technology	Livestock Development	Economicaly Important Crops	Any two or more packages
Gambela Killil	1137	9156	658	*	979	240
ZONE 1	-	23	-	10	*	-
Jikawo	-	-	-	-	-	-
Itang	-	15	-	10	*	-
Gambela	-	*	-	-	*	-
ZONE 2	236	246	-	-	*	*
Abobo	236	33	-	-	*	*
Jor	-	-	-	-	-	-
Gog	-	*	-	-	-	-
Godare	-	202	-	-	-	-

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

Geographic Area	Reason for not Being Covered by Extension Program					
	Do not Know the Advantage	Shortage of Money	Suspicious of its Efficiency	Program not Available	Insufficient Arable Land	Others
Gambela Killil	7963	1164	896	15841	1255	494
ZONE 1	3154	268	40	5977	77	*
Jikawo	1319	-	-	1641	-	*
Itang	1276	101	13	2512	43	*
Gambela	559	*	*	1825	*	-
ZONE 2	4809	896	856	9864	1178	443
Abobo	860	581	35	1163	399	394
Jor	-	-	-	1205	-	-
Gog	1925	26	-	803	188	*
Godare	2024	289	820	6693	592	43

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

Geographic Area	Service Type			
	Credit Service	%	Advisory Service	%
Gambela Killil	302	100.00	2162	100
ZONE 1	20	6.62	101	4.67
Jikawo	-	-	-	-
Itang	20	6.62	58	2.68
Gambela	-	-	*	-
ZONE 2	283	93.71	2062	95.37
Abobo	203	67.22	726	33.58
Jor	-	-	-	-
Gog	-	-	45	2.08
Godare	80	26.49	1291	59.71

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

Geographic Area	Number of Holders by Source of Chemical Fertilizer						Cost of Chemical Fertilizer (Birr/Quintal)	
	Government	Private Organization	Traders	Others	Do not buy	Not Reporting	DAP	UREA
Gambela Killil	259	49	*	*	26310	191	244.88	203.26
ZONE 1	7	*	-	3	8900	38		*
Jikawo	-	*	-	-	2773	-		
Itang	7	6	-	3	3787	*		*
Gambela	-	-	-	-	2340	*		
ZONE 2	252	36	*	*	17409	153	244.88	190.20
Abobo	221	*	*	-	3325	101	255.46	196.82
Jor	-	-	-	-	1170	*		
Gog	-	*	-	*	2634	*		
Godare	*	*	-	-	10280	*	*	*

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

Geographic Area	Holders who Practice Belg from 1999/2000 to 2001/02				
	Total	Female	%	Male	%
Gambela Killil	343	237	69.1	106	30.9
ZONE 1 Zone	185	148	80	37	20
Itang	*	*	*	*	*
Gambela	148	116	78.38	32	21.62
ZONE 2 Zone	158	89	56.33	69	43.67
Gog	102	32	31.37	69	67.65
Godare	57	57	100	-	-
Dima	-	-	-	-	-

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

Geographic Area	All crops		Teff		Barley		Wheat	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Gambela Killil	245	81	-	-	-	-	-	-
ZONE 1	39	4	-	-	-	-	-	-
Jikawo	*	*	-	-	-	-	-	-
Itang	27	3	-	-	-	-	-	-
Gambela	*	*	-	-	-	-	-	-
ZONE 2	206	77	-	-	-	-	-	-
Abobo	103	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	103	*	-	-	-	-	-	-
	Maize		Sorghum		Rice		Field peas	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Gambela Killil	181	58	73	*	*	*	-	-
ZONE 1	36	4	-	-	-	-	-	-
Jikawo	*	*	-	-	-	-	-	-
Itang	27	3	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	145	54	73	*	*	*	-	-
Abobo	81	48	*	*	*	*	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-	-

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

Type of crop	Improved Seed Applied			Irrigation			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	12684	690	5	421	96	23	6	4	71	593	87	15
Grains Crops	8470	403	5	190	52	27	1	-	43	487	79	16
Cereals	7877	372	5	188	52	27	1	-	43	480	79	16
Teff	5	2	49	-	-	-	-	-	-	-	-	-
Barley	9	3	31	-	-	-	-	-	-	-	-	-
Wheat	-	-	83	-	-	-	-	-	-	-	-	-
Maize	5110	273	5	143	45	32	1	-	43	418	75	18
Sorghum	2664	222	8	39	12	30	-	-	-	54	18	32
Millet	48	14	29	-	-	120	-	-	-	-	-	101
Oats	1	1	60	-	-	-	-	-	-	-	-	-
Rice	39	12	30	6	5	76	-	-	-	8	5	64
Pulse	116	25	22	1	1	95	-	-	-	5	1	12
Horse beans	2	1	60	-	-	-	-	-	-	-	-	96
Field peas	1	-	68	-	-	-	-	-	-	-	-	96
Haricot beans	112	25	22	1	1	95	-	-	-	4	1	13
Chick peas	-	-	94	-	-	-	-	-	-	-	-	-
Lentiles	-	-	83	-	-	-	-	-	-	-	-	-
Vetch	-	-	88	-	-	-	-	-	-	-	-	96
Soya	-	-	46	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	106	-	-	-	-	-	-	-	-	106
Gibto	1	1	57	-	-	-	-	-	-	-	-	84
Oile seed	345	81	24	-	-	63	-	-	-	-	-	88
Nueg	-	-	109	-	-	-	-	-	-	-	-	-
Linseed	2	2	80	-	-	-	-	-	-	-	-	-
Ground nuts	26	9	36	-	-	77	-	-	-	-	-	68
Sunflower	1	-	37	-	-	-	-	-	-	-	-	-
Sesame	315	82	26	-	-	-	-	-	-	-	-	99
Rapeseed.	1	-	56	-	-	94	-	-	-	-	-	-
Other Grain	132	30	23	1	1	109	-	-	-	2	2	85
Vegetables.	562	110	20	-	-	74	-	-	101	17	5	27
Lettuce	-	-	-	-	-	-	-	-	-	-	-	-
Cabbage	1	1	63	-	-	-	-	-	-	-	-	-
Kale	22	6	27	-	-	-	-	-	-	4	2	53
Tomatoes	8	3	38	-	-	74	-	-	101	1	1	70
Green pepper	5	1	25	-	-	-	-	-	-	-	-	48
Red paper	20	6	30	-	-	-	-	-	-	1	-	74
Swiss chard	-	-	71	-	-	-	-	-	-	-	-	-
Others	506	110	22	-	-	-	-	-	-	11	4	36
Root Crops	363	43	12	-	-	103	-	-	71	12	3	28
Beet root	-	-	96	-	-	-	-	-	-	-	-	-
Carrot	-	-	99	-	-	-	-	-	-	-	-	99
Onion	-	-	56	-	-	-	-	-	-	-	-	70
Potatoes	1	1	52	-	-	-	-	-	-	-	-	-
Garlic	1	-	35	-	-	-	-	-	-	-	-	61
Godere	221	36	16	-	-	-	-	-	71	8	3	35
Sweet potatoes	108	17	15	-	-	-	-	-	-	4	2	49
Others	32	6	20	-	-	103	-	-	-	-	-	48
Permanet crops	3289	405	12	231	82	36	5	4	92	76	26	35
Fruit Crops	361	26	7	4	2	57	-	-	77	8	2	27
Avocado	4	1	25	-	-	53	-	-	-	-	-	75
Bannas	181	18	10	1	1	64	-	-	73	3	2	49
Guava(Zeytuna)	4	2	39	-	-	101	-	-	-	-	-	60
Lemons	4	1	34	-	-	-	-	-	-	1	1	87
Mangos	105	9	9	2	2	86	-	-	96	2	-	15
Oranges	10	2	25	-	-	101	-	-	-	-	-	69
Papayas	51	5	9	-	-	56	-	-	102	2	1	46
Pineapples	2	-	25	-	-	-	-	-	-	-	-	107
Others	1	-	33	-	-	-	-	-	-	-	-	109
Stimulant Crop	2463	344	14	227	81	36	4	4	114	10	5	48
Chat	37	8	21	-	-	-	-	-	-	-	-	61
Coffee	2411	337	14	227	81	36	4	4	114	10	5	50
Gesho.	14	3	21	-	-	-	-	-	-	-	-	93
Others	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	465	108	23	-	-	94	1	1	95	58	25	43
Enset	393	108	28	-	-	-	-	-	-	56	25	45
Sugar Cane	68	9	14	-	-	94	1	1	95	2	1	34
Others	4	1	31	-	-	-	-	-	-	-	-	4

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

Type of crop	Improved Seed Applied			Irrigation			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	909	81	9	50	19	39	9	6	71	13	7	53
Grains Crops	425	44	10	12	7	55	7	6	88	13	7	53
Cereals	377	41	11	12	6	54	7	6	88	12	7	55
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	260	31	12	8	3	42	3	3	84	8	4	50
Sorghum	117	18	16	4	3	91	4	3	91	4	3	76
Millet	-	-	70	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-	-	-	-
Pulse	1	-	39	-	-	-	-	-	-	-	-	-
Horse beans	-	-	-	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot beans	1	-	39	-	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-	-	-	-
Oile seed	23	3	15	-	-	91	-	-	91	1	1	83
Nueg	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	1	-	47	-	-	91	-	-	91	-	-	91
Ground nuts	17	3	18	-	-	91	-	-	-	-	-	86
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	5	1	24	-	-	-	-	-	-	-	-	86
Rapeseed.	-	-	-	-	-	-	-	-	-	-	-	-
Other Grain	24	8	33	-	-	-	-	-	-	-	-	-
Vegetables.	4	2	45	-	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-	-	-	-
Cabbage	-	-	-	-	-	-	-	-	-	-	-	-
Kale	-	-	18	-	-	-	-	-	-	-	-	-
Tomatoes	3	2	62	-	-	-	-	-	-	-	-	-
Green pepper	-	-	38	-	-	-	-	-	-	-	-	-
Red paper	-	-	91	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-	-	-	-
Others	1	-	58	-	-	-	-	-	-	-	-	-
Root Crops	4	1	35	-	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-	-	-	-
Onion	-	-	70	-	-	-	-	-	-	-	-	-
Potatoes	1	1	63	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-	-	-	-
Godere	-	-	65	-	-	-	-	-	-	-	-	-
Sweet potatoes	1	1	63	-	-	-	-	-	-	-	-	-
Others	2	1	47	-	-	-	-	-	-	-	-	-
Permanet crops	476	63	13	38	18	48	2	2	85	-	-	91
Fruit Crops	9	1	15	-	-	-	-	-	-	-	-	-
Avocado	-	-	62	-	-	-	-	-	-	-	-	-
Bannas	2	1	29	-	-	-	-	-	-	-	-	-
Guava(Zeytuna)	-	-	43	-	-	-	-	-	-	-	-	-
Lemons	-	-	63	-	-	-	-	-	-	-	-	-
Mangos	4	1	21	-	-	-	-	-	-	-	-	-
Oranges	-	-	41	-	-	-	-	-	-	-	-	-
Papayas	2	1	32	-	-	-	-	-	-	-	-	-
Pineapples	-	-	85	-	-	-	-	-	-	-	-	-
Others	-	-	43	-	-	-	-	-	-	-	-	-
Stimulant Crop	463	62	13	38	18	48	-	-	-	-	-	91
Chat	1	1	88	-	-	-	-	-	-	-	-	-
Coffee	462	62	13	38	18	48	-	-	-	-	-	91
Gesho.	-	-	78	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	5	2	48	-	-	-	2	2	85	-	-	-
Enset	-	-	65	-	-	-	-	-	-	-	-	-
Sugar Cane	5	2	49	-	-	-	2	2	85	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-