

## **CHAPTER VIII**

### **FARM IMPLEMENTS, DRAUGHT ANIMALS AND STORAGE FACILITIES**

#### **1. INTRODUCTION**

Agriculture is the single largest sector in the Ethiopian economy. The position of the agricultural sector for the past few decades does not only concern the peasants, but on account of the extent of its inputs, outputs and its function as a largest employer of labour has a profound impact on the entire economy. It is worth to point-out that Ethiopia has large resources in terms of land, agricultural labour, draught animals... etc.

Despite all these facts, the average yield of the main food crops and livestock products attained by private peasant holders is very low and it is not adequate to feed the ever-growing population. Because of such prevailing conditions in the agricultural sector, the economy remained at subsistence level. Among the factors that hampered the country not to prosper is the use of primitive farm implements and tools by the peasants to operate their land and to raise livestock.

The role of improved agricultural implements and tools in raising the standard of farming efficiency and increasing average yield of production has been recognized for many years. Land preparation requires modern power source that results in considerable farm efficiency and expansion of production. Sowing and fertilization are among the agricultural operations where animal and tractor drawn machines appear to be capable of greater efficiency than only hand method. Power-driven line sowing and fertilization are more efficient than hand spreading and this is usually expected to result in higher yield for the same amount of fertilizers and seeds.

The traditional unimproved farm implements used by the peasants and the poor conditions of the draught animals are considered to be among the main factors that retarded the agricultural productivity in the country. On the other hand, the development of farm implements and machineries can also be crippled by small land

size holdings, abundant labour in rural area and non-availability of adequate access to modern farm implements and machineries, which the private peasant holders can afford to rent or buy. In general, effective development of farm implements and machineries takes place when land is abundant and labour is being rapidly absorbed by non-agricultural sector, (WB, 1984).

Since development programmes are in progress in Ethiopia, data generated from censuses and sample surveys on different types of agricultural outputs and inputs are necessary for the formulation of programmes and policies in the sector and thereby for monitoring and evaluation of the impact of the programmes. One of the objectives of this census was to provide benchmark data that can help to assess the growth, quantity, quality and value of farm implements and other farm equipment used by the private peasant holders so as to easily identify the implements that are abundant and those that are in short supply. The structural characteristics of these farm implements and other farm equipment do not change much from year to year and such data are usually obtained from a census of agriculture, which is conducted every 5 or 10 years.

Data on farm implements and other farm equipment have not been collected in Ethiopia and as a result only very little is known about the status and growth of these implements. Thus, in the Ethiopian agricultural census conducted in 2001/2002, data was collected on farm implements and other farm equipment. These farm implements include, implements used for clearing land, cultivation, harvesting, threshing and others. In this census draught animals comprises animals engaged specifically in ploughing, threshing and farm transport facilities. Replacement value was one of the variables covered by this census and it is defined as the amount it would cost to replace the farm implement, equipment, draught animal and storage facility with those that are similar in terms of origin, age, quality or condition.

In this chapter the classification of farm implements, farm equipment, draught animals and storage facilities are presented in Section 2. Brief discussions of data on Summary Tables VIII.1 to VIII.4 are also provided in Section 3. Statistical Tables presenting the census results of Shinele and Erer weredas of Shinele zone, Jijga, Teferi-Ber and Kebri-

Beyah weredas of Jijiga zone and Filtu, Dolo odo and Moyale weredas of Liben zone are also given as Table series 8.1A - 8.32A. and 8.1B- 8.32B Finally, the estimates, Standard Errors (S.E.) and Coefficients of Variation (C.V.) on number of holders reporting, number of farm implements reported and total value are presented in the Annex Table to this chapter.

## **2. CLASSIFICATION OF FARM IMPLEMENTS, OTHER FARM EQUIPMENT AND DRAUGHT ANIMALS**

The farm implements and draught animals reported were classified into the following eight groups: -

- Implements used for clearing land,
- Implements used for cultivation,
- Parts for traditional plough,
- Implements used for harvesting,
- Implements used for threshing,
- Other farm equipment,
- Draught animals for farm activity, and
- Storage facilities.

These eight groups further broken down to include the following implements and other farm equipment:

### **2.1 Implements used for clearing land:-**

- a) Axes,
- b) 'Gejera '(Chopper), and
- c) Shovel.

### **2.2 Implements used for cultivation:-**

- a) Hoe,
- b) 'Mekeskesha',
- c) Pick-Axe, and
- d) Tractor.

### **2.3 Parts for traditional plough:-**

- a) 'Deger',
- b) 'Erfe',
- c) Plough-Beam,
- d) Plough-Tip, and
- e) 'Wegel'-Tip.

### **2.4 Implement used for harvesting:-**

- a) Sickle.

### **2.5 Implements used for threshing:-**

- a) Hay- Fork (metal or wood),
- b) Threshing Stick, and
- c) Winnower (metal or wood).

### **2.6 Other farm equipment:-**

- a) Cart (hauling),
- b) Sprayer (hand operated),
- c) Sprayer (power operated),
- d) Tying Tool, and
- e) Wheelbarrow.

### **2.7 Draught animals:-**

- a) Animals deployed specifically in ploughing:-
  - Ass/Donkey,
  - Camel,
  - Horse,
  - Mule, and
  - Ox.

b) Animals deployed in threshing or transportation: -

- Ass/Donkey,
- Camel,
- Cattle (Working Age),
- Horse, and
- Mule.

## **2.8 Storage facilities:-**

- a) 'Debignit'(Local storage),
- b) 'Gottera' (Local storage),
- c) 'Gudguad'(Local storage), and
- d) Modern storage.

### **Definitions of storage facilities**

'Debignit': - Is a round vessel of earthenware storage attached with the wall of a house. The shape of 'Debignit' is similar to the shape of a barrel. Debignit is usually around 1 metre high and 0.5-1metres wide.

'Gottera': - Is storage made of bamboo plant. The bamboo is split and then crisscrossed and woven like a giant basket. Finally, it is laminated with a mixture of animal dung and dry grass. 'Gottera' is usually about 1-3 metres high and about 1 metre wide

'Gudguad': - Is an underground storage, which is formed by digging the ground with certain depth and radius. The wall of 'Gudguad' is usually laminated with animal dung.

Modern storage: - Is a storage that has a better quality in protecting grains from humidity and pests than the above mentioned storages.

### **3. ESTIMATES OF FARM IMPLEMENTS, DRAUGHT ANIMALS AND STORAGE FACILITIES.**

The type, quality and quantity of tools and implements in use usually indicate the level of farming practice and agricultural development of a country. Hence, the results of this census can give us some highlights to evaluate the farming system in Shinele, Erer, Jijiga, Teferi-Ber, Kebri-Beyah, Filtu, Dolo-Odo, and Moyale weredas of Somali Region. In this report farm implements are grouped in terms of their operation and this can help to make appropriate comparisons.

#### **3.1 Farm Implements and Tools**

The data in Summary Table VIII.1 indicates that the number of holders reporting axe was the highest followed by 'Gejera'(Chopper) while shovel was the lowest. In Somali Region (only in Shinele, Erer, Jijiga, Teferi-Ber, Kebri-Beyah, Filtu, Dolo-Odo, and Moyale weredas) it is estimated that there were about 89,389 crop holders in rural areas of which about 74,636 (83.50%) reported to own axes, about 64.72% reporting shovels, and 15.4% reporting 'Gejeras' (choppers). Among the farm implements used for clearing land the number of observation for axe was highest and the total value for axe was also the highest followed by shovels. The expected duration of service of an axe and shovel was estimated to be 5 years each, while for 'Gejera' it was 6 years.

One of the labour and power intensive farm activities is cultivation. It comprises digging, ploughing, sowing and weeding. In order to accomplish such operations, the Ethiopian peasants use hoe, 'Mekeskesha', pick-axe, and traditional plough. Among these farm implements and tools hoe was the highest in terms of number of holders reporting, total number of implements reported and total value. The second highest was pick-axe. The data in Summary Table VIII.4 revealed that the percentage distribution of the Number of crop holders that owned one, two, three, four and five and above hoes was 37.02%, 6.55%, 0.88%, 0.25% and 0.11% respectively.

#### **3.2 Draught Animals**

Peasants in Ethiopia use domestic animals for draught purpose. In several parts of the country since holdings are far from residence and as a result asses, horses, mules and

camels are used to transport various types of goods and agricultural products from holding to residence and vice-versa. As it is indicated in Summary Table VIII.2 among the draught animals that are used for ploughing, ox was the highest in terms of number of holders reporting, number of oxen reported and total value the oxen amounted to 61 million Birr. About 49,186 holders (55.02 of the total crop holders in Shinele, Jijiga and Liben zone) reported 99,077 cattle (working age cattle) used for threshing and these cattle had a value of over 64 million Birr and the average replacement value of a working age cattle was about 334.96 Birr. It was also indicated that asses and mules were used by the holders for threshing and transportation. The estimated number and percentage distribution of crop holders in rural areas that owned implements, equipment and draught animals are shown in Summary Table VIII.4. In S.N.N.P. region the agricultural census result shows that there were about 89,389 crop holders in rural areas. Among these 18.29%, 37.30%, 2.06%, 0.72%, and 0.11% holders owned one, two, three, four, and five and above oxen. On the other hand about 41.52% of the holders did not own ox. For details, see Summary Table VIII.4.

### **3.3 Storage Facilities**

One of the methods that minimize post harvest production losses is the usage of modern storage facilities. During the census, data was collected on modern storage facilities and the unimproved local storage facilities such as 'Debignit', 'Gottera' and 'Gudguad'. In this census, buildings or any structure used as storage facilities and other containers that have better storage quality to protect agricultural products from humidity and pests are considered as modern storage facilities.

The data in Summary Table VIII.3 shows the number of holders reporting storage facilities and number of such facilities. Thus, the data in the table reveals that 'Gudguad' was reported by the highest number of holders, followed by 'Gottera'. On the other hand, 'Debignit' and modern storage facilities was reported by insignificant number of holders. The total value of all reported storage facilities was assessed to be 6,507,670 Birr, of which 84.8% and 14.9 comprises of 'Gudguad' and Gottera, respectively. The percentage

distribution of the number of crop holders that owned 'Gottera', 'Gudguad', 'Debignit' and modern storage is also presented in Summary Table VIII.4.

SUMMARY TABLE VIII.1:-Number and Percentage of Holders Reporting Implements and Other Farm Equipment by type, Quantity Reported, Replacement Value, and Duration of Implement, for Private Holdings.

Implements and Equipment	Number of Holders Reporting	Percent of Total Holders	Number of Implements and Equipment		Total Value of Imp. and Eq. (Birr)	Average Replacement Value Per Imp. and Eq. (Birr)	Average Duration of Service of Imp. and Eq. (Years)
			Total Reported	# Average Per Holder			
Used for Clearing Land							
Axes .....	74,636	83.50	102,532	1.15	1,324,660	9.38	5
'Gejeras' (Choppers).....	13,335	14.92	15,885	0.18	224,903	12.07	6
Shovels .....	57,857	64.72	77,555	0.87	1,206,593	11.75	5
Used for Cultivation							
Hoes .....	40,062	44.82	48,675	0.54	882,962	15.37	5
'Mekeskeshas' .....	6,227	6.97	6,946	0.08	45,867	5.98	3
Pick-Axes .....	17,962	20.09	22,955	0.26	340,671	12.12	6
Tractor .....	-	-	-	-	-	-	-
Parts for traditional Plough							
'Degers' .....	58,136	65.04	87,687	0.98	569,588	4.60	3
'Erfes' .....	56,807	63.55	66,118	0.74	432,066	5.76	3
Plough - Beams .....	59,313	66.35	61,947	0.69	1,508,907	23.62	5
Plough -Tips .....	58,508	65.45	62,867	0.70	1,466,256	21.92	6
'Wegel'-Tips .....	57,198	63.99	70,981	0.79	546,422	6.81	4
Yokes .....	59,604	66.68	63,109	0.71	1,153,825	17.37	4
Used for Harvesting							
Sickles .....	59,095	66.11	81,139	0.91	1,092,145	9.75	5
Used for Threshing							
Hay-Forks (metal).....	680	0.76	731	0.01	8,890	10.25	5
Hay-Forks (wood).....	29,563	33.07	33,306	0.37	340,297	8.99	4
Threshing Sticks .....	41,576	46.51	89,151	1.00	386,633	2.36	2
Winnowers (metal) .....	197	0.22	197	0.00	*	*	6
Winnowers (wood) .....	16,756	18.75	18,393	0.21	218,041	11.18	4
Other farm Equipment							
Carts .....	609	0.68	674	0.01	650,286	890.80	16
Sprayers (Hand operated) ....	296	0.33	353	0.00	*	*	6
Sprayers (Power operated) ..	-	-	-	-	-	-	-
Tying Tools .....	-	-	-	-	-	-	-
Wheelbarrows .....	1,532	1.71	1,687	0.02	363,920	197.30	7

# Average per holder is the ratio of total number of each implement reported to total number of crop holders in rural areas in the region.

- Total number of crop holders comprises, holders participated in crop production only and both crop production and livestock rearing.



**SUMMARY TABLE VIII.2:-Number and Percentage of Holders Reporting Draught Animals, Quantity Reported, Replacement Value, and Average Age of Animal, for Private Holdings.**

Draught Animals	Number of Holders Reporting	Percent of Total Holders	Number of Animals		Total Value of Animals (Birr)	Average Replacement Value Per Animal (Birr)	Average Age of Animal (Years)
			Total Reported	# Average Per Holder			
Used for Ploughing							
Asses .....	657	0.73	842	0.01	358,052	343.57	7
Camels.....	518	0.58	628	0.01	618,116	814.44	10
Horses .....	-	-	-	-	-	-	-
Mules.....	-	-	-	-	-	-	-
Oxen.....	52,276	58.48	92,340	1.03	61,276,704	381.48	6
Used for Threshing or Transportation							
Asses .....	37,495	41.95	45,928	0.51	12,547,418	221.86	9
Camels.....	11,365	12.71	16,091	0.18	17,232,801	772.07	11
Cattle.....	49,186	55.02	99,077	1.11	64,826,868	334.96	6
Horses .....	-	-	-	-	-	-	-
Mules.....	94	0.11	*	-	*	*	10

# Average per holder is the ratio of total number of each draught animal reported to total number of crop holders in rural areas in the region.

- Total number of crop holders comprises, holders participated in crop production only and both crop production and livestock rearing.

**SUMMARY TABLE VIII.3: - Number and Percentage of Holders Reporting Storage facilities, Quantity Reported, Replacement Value, and Storage Capacity, for Private Holdings.**

Storage Structure	Number of Holders Reporting	Percent of Total Storage Holders	Number of Storages		Total Value of Storages (Birr)	Average Replacement Value Per Storage (Birr)	Average Storage Capacity Per Storage (Quintal)
			Total Reported	# Average Per Holder			
'Debignits'.....	425	0.48	425	0.00	19,158	45.08	6
'Gotteras' .....	6,264	7.01	6,739	0.08	969,582	136.33	26
'Gudguads' .....	43,300	48.44	56,116	0.63	5,518,748	77.41	14
Modern Storage Structures....	5	0.01	5	0.00	182	36.47	13

# Average per holder is the ratio of total number of each storage facility reported to total number of crop holders in rural areas in the region.

- Total number of crop holders comprises, holders participated in crop production only and both crop production and livestock rearing.

SUMMARY TABLE VIII.4:-Number of Crop Holders that Owned Farm Implement, Equipment and Draught Animals.

Name of Implement, Equipment, and Draught Animal	Number of Crop holders that owned											
	No Implement, Equipment, or Draught Animal		One Implement, Equipment, and Draught Animal		Two Implements, Equipment, and Draught Animals		Three Implements, Equipment, and Draught Animals		Four Implements, Equipment, and Draught Animals		Five and above Implements, Equipment, and Draught Animals	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Used for Clearing Land												
Axes .....	14,753	16.50	54,261	60.70	15,736	17.60	3,124	3.49	872	0.98	643	0.72
'Gejera' .....	76,053	85.08	11,310	12.65	1,620	1.81	329	0.37	35	0.04	42	0.05
Shovel .....	31,532	35.28	42,454	47.49	12,443	13.92	2,039	2.28	597	0.67	324	0.36
Used for Cultivation												
Hoes .....	49,326	55.18	33,094	37.02	5,859	6.55	787	0.88	223	0.25	100	0.11
'Mekeskeshas' .....	83,162	93.03	5,662	6.33	507	0.57	20	0.02	19	0.02	19	0.02
Pick- Axes.....	71,428	79.91	14,074	15.74	3,037	3.40	643	0.72	187	0.21	20	0.02
Tractors.....	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Parts for traditional Plough												
'Degers'.....	31,253	34.96	32,169	35.99	24,199	27.07	420	0.47	1,145	1.28	203	0.23
'Erfes' (Handle) .....	32,582	36.45	49,884	55.81	5,059	5.66	1,434	1.60	391	0.44	39	0.04
Plough-Beam. ....	30,075	33.65	57,078	63.85	1,987	2.22	177	0.20	32	0.04	40	0.04
Plough -Tips .....	30,881	34.55	54,537	61.01	3,624	4.05	304	0.34	43	0.05	-	-
'Wegel' -Tips.....	32,191	36.01	50,230	56.19	3,358	3.76	609	0.68	2,960	3.31	41	0.05
Yokes .....	29,785	33.32	56,472	63.18	2,797	3.13	296	0.33	39	0.04	-	-
Used for Harvesting												
Sickles.....	30,294	33.89	41,677	46.62	13,871	15.52	2,663	2.98	687	0.77	197	0.22
Used for Threshing												
Hay-Forks (Metal) .....	88,709	99.24	654	0.73	-	-	26	0.03	-	-	-	-
Hay-Forks (Wood) .....	59,826	66.93	26,230	29.34	3,011	3.37	263	0.29	28	0.03	31	0.03
Threshing Sticks .....	47,813	53.49	23,283	26.05	9,036	10.11	3,044	3.41	2,644	2.96	3,569	3.99
Winnowers (Metal) .....	89,192	99.78	197	0.22	-	-	-	-	-	-	-	-
Winnowers (Wood) .....	72,632	81.25	15,505	17.35	957	1.07	204	0.23	91	0.10	-	-
Other Farm Equipment												
Carts .....	88,779	99.32	568	0.64	30	0.03	-	-	12	0.01	-	-
Sprayers (Hand Operated)	89,093	99.67	239	0.27	57	0.06	-	-	-	-	-	-
Sprayers (Power Operated)	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Tying Tools.....	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Wheelbarrows.....	87,857	98.29	1,403	1.57	103	0.12	26	0.03	-	-	-	-
Animals Used for Ploughing												
Asses .....	88,732	99.27	481	0.54	172	0.19	-	-	4	0.00	-	-
Camels .....	88,870	99.42	409	0.46	110	0.12	-	-	-	-	-	-
Horses .....	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Mules .....	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Oxen.....	37,113	41.52	16,352	18.29	33,340	37.30	1,844	2.06	643	0.72	97	0.11
Animals Used for Threshing or Transportation												
Asses .....	51,895	58.06	30,108	33.68	6,619	7.40	580	0.65	172	0.19	15	0.02
Camels .....	78,025	87.29	8,262	9.24	2,227	2.49	392	0.44	314	0.35	169	0.19
Cattle.....	40,203	44.98	14,160	15.84	27,052	30.26	4,342	4.86	2,134	2.39	1,498	1.68
Horses .....	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Mules .....	89,295	99.89	51	0.06	17	0.02	26	0.03	-	-	-	-
Storage Structure												
'Debignits' .....	88,964	99.52	425	0.48	-	-	-	-	-	-	-	-
'Gotteras' .....	83,126	92.99	5,807	6.50	437	0.49	19	0.02	-	-	-	-

'Gudguads'.....	46,089	51.56	33,103	37.03	8,282	9.27	1,544	1.73	193	0.22	178	0.20
Modern Storages.....	89,384	99.99	5	0.01	-	-	-	-	-	-	-	-

STATISTICAL TABLES PRESENTING THE CENSUS  
RESULTS AT  
ZONAL AND WOREDA LEVELS

Tables 8.1A- 8.32A

TABLE 8.1A: - Number of Holders Reporting Axe Owned, Quantity Reported, Replacement Value, and Duration of Service of Axe, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Axes Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Axe (Birr)	Average Duration of Service of Axe (Years)
Somali Region .....	89,389	74,636	102,532	1.15	1,324,660	9.38	5
Shinele Zone .....	2,674	1,663	3,095	1.16	32,742	6.33	8
Shinele .....	560	434	586	1.05	5,363	6.86	7
Erer .....	2,114	1,229	2,510	1.19	27,379	6.21	9
Jijiga Zone .....	68,805	58,309	75,105	1.09	898,591	9.47	5
Jijiga .....	35,862	29,288	37,809	1.05	447,686	9.41	5
Teferi Ber .....	18,096	15,660	19,228	1.06	222,520	9.56	5
Kebri Beyah .....	14,847	13,361	18,068	1.22	228,385	9.48	5
Liben Zone .....	17,911	14,664	24,331	1.36	393,326	9.49	6
Filtu .....	4,657	3,723	5,716	1.23	106,493	12.15	7
Dolo Odo .....	5,232	4,612	7,249	1.39	91,639	8.39	6
Moyale .....	8,022	6,329	11,367	1.42	195,195	8.84	6

TABLE 8.2A: - Number of Holders Reporting 'Gejera' Owned, Quantity Reported, Replacement Value, and Duration of Service of 'Gejera', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Gejeras' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Gejera' (Birr)	Average Duration of Service of 'Gejera' (Years)
Somali Region .....	89,389	13,335	15,885	0.18	224,903	12.07	6
Shinele Zone .....	2,674	335	423	0.16	4,034	8.42	7
Shinele .....	560	49	49	0.09	400	9.08	7
Erer .....	2,114	286	374	0.18	3,634	8.33	7
Jijiga Zone .....	68,805	7,849	9,068	0.13	130,604	12.65	6
Jijiga .....	35,862	3,897	4,723	0.13	73,332	12.87	6
Teferi Ber .....	18,096	1,699	2,050	0.11	22,180	9.66	6
Kebri Beyah .....	14,847	2,253	2,294	0.15	35,093	14.87	6
Liben Zone .....	17,911	5,151	6,394	0.36	90,265	11.49	7
Filtu .....	4,657	592	742	0.16	12,882	13.63	8
Dolo Odo .....	5,232	2,078	2,714	0.52	32,915	9.44	7
Moyale .....	8,022	2,481	2,938	0.37	44,467	12.85	6

TABLE 8.3A:- Number of Holders Reporting Shovel Owned, Quantity Reported, Replacement Value, and Duration of Service of Shovel, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Shovels Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Shovel (Birr)	Average Duration of Service of Shovel (Years)
Somali Region .....	89,389	57,857	77,555	0.87	1,206,593	11.75	5
Shinele Zone .....	2,674	2,354	4,016	1.50	36,256	5.63	5
Shinele .....	560	354	374	0.67	2,972	7.66	6
Erer .....	2,114	2,001	3,642	1.72	33,284	5.42	5
Jijiga Zone .....	68,805	49,535	65,705	0.95	1,023,757	11.86	5
Jijiga .....	35,862	26,248	35,453	0.99	546,757	11.44	4
Teferi Ber .....	18,096	11,646	15,440	0.85	216,936	11.00	5
Kebri Beyah .....	14,847	11,641	14,812	1.00	260,065	13.79	5
Liben Zone .....	17,911	5,967	7,834	0.44	146,579	13.95	5

Filtu.....	4,657	1,133	1,387	0.30	23,575	14.19	7
Dolo Odo .....	5,232	2,065	2,872	0.55	49,123	11.90	5
Moyale.....	8,022	2,769	3,576	0.45	73,881	15.50	5

TABLE 8.4A: - Number of Holders Reporting Hoe Owned, Quantity Reported, Replacement Value, and Duration of Service of Hoe, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Hoes Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Hoe (Birr)	Average Duration of Service of Hoe (Years)
Somali Region .....	89,389	40,062	48,675	0.54	882,962	15.37	5
Shinele Zone.....	2,674	1,542	1,817	0.68	25,257	12.21	7
Shinele .....	560	159	171	0.31	2,562	13.95	7
Erer .....	2,114	1,383	1,646	0.78	22,695	12.03	7
Jijiga Zone .....	68,805	35,216	41,329	0.60	769,210	16.30	5
Jijiga .....	35,862	21,184	24,008	0.67	514,259	18.91	4
Teferi Ber .....	18,096	7,579	9,349	0.52	127,413	11.90	5
Kebri Beyah.....	14,847	6,454	7,972	0.54	127,538	13.60	6
Liben Zone .....	17,911	3,304	5,529	0.31	88,495	9.45	7
Filtu.....	4,657	736	1,160	0.25	23,406	12.78	10
Dolo Odo .....	5,232	1,539	2,763	0.53	38,868	7.53	6
Moyale.....	8,022	1,028	1,607	0.20	26,221	10.34	5

TABLE 8.5A: - Number of Holders Reporting 'Mekeskesha' Owned, Quantity Reported, Replacement Value, and Duration of Service of 'Mekeskesha', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Mekeskeshas' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Mekeskesha' (Birr)	Average Duration of Service of 'Mekeskesha' (Years)
Somali Region .....	89,389	6,227	6,946	0.08	45,867	5.98	3
Shinele Zone.....	2,674	71	85	0.03	109	1.11	1
Shinele .....	560	35	35	0.06	56	1.59	2
Erer .....	2,114	36	50	0.02	53	0.78	1
Jijiga Zone .....	68,805	5,362	5,773	0.08	34,657	5.75	3
Jijiga .....	35,862	1,615	1,645	0.05	15,548	9.27	5
Teferi Ber .....	18,096	3,259	3,604	0.20	14,243	3.68	2
Kebri Beyah.....	14,847	*	*	-	*	*	*
Liben Zone .....	17,911	794	1,088	0.06	11,101	7.56	4
Filtu.....	4,657	*	*	-	*	*	*
Dolo Odo .....	5,232	201	271	0.05	3,455	8.89	5
Moyale.....	8,022	568	793	0.10	7,549	7.21	3

TABLE 8.6A:- Number of Holders Reporting Pick-Axe Owned, Quantity Reported, Replacement Value, and Duration of Service of Pick-Axe, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Pick-Axes Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Pick-Axe (Birr)	Average Duration of Service of Pick-Axe (Years)
Somali Region .....	89,389	17,962	22,955	0.26	340,671	12.12	6
Shinele Zone.....	2,674	217	224	0.08	2,779	12.11	9
Shinele .....	560	121	121	0.22	1,555	12.85	10
Erer .....	2,114	96	103	0.05	1,224	11.23	9
Jijiga Zone .....	68,805	12,451	15,251	0.22	207,104	11.82	6
Jijiga .....	35,862	4,970	5,120	0.14	88,050	16.76	6
Teferi Ber .....	18,096	4,373	5,579	0.31	68,228	10.11	6
Kebri Beyah.....	14,847	3,108	4,553	0.31	50,826	8.36	6

Liben Zone .....	17,911	5,293	7,480	0.42	130,788	12.73	7
Filtu.....	4,657	1,207	1,584	0.34	28,512	14.37	8
Dolo Odo .....	5,232	1,367	1,946	0.37	26,974	10.15	7
Moyale.....	8,022	2,718	3,950	0.49	75,302	13.34	6

TABLE 8.7A: - Number of Holders Reporting 'Deger' Owned, Quantity Reported, Replacement Value, and Duration of Service of 'Deger', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Degers' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Deger' (Birr)	Average Duration of Service of 'Deger' (Years)
Somali Region .....	89,389	58,136	87,687	0.98	569,588	4.60	3
Shinele Zone.....	2,674	934	1,379	0.52	5,170	2.65	1
Shinele .....	560	72	125	0.22	461	2.14	2
Erer .....	2,114	862	1,254	0.59	4,708	2.70	1
Jijiga Zone .....	68,805	51,359	76,905	1.12	506,396	4.70	3
Jijiga .....	35,862	26,038	37,058	1.03	212,251	4.29	2
Teferi Ber .....	18,096	13,324	21,866	1.21	134,877	4.09	4
Kebri Beyah.....	14,847	11,997	17,981	1.21	159,268	6.27	3
Liben Zone .....	17,911	5,843	9,403	0.52	58,022	4.12	3
Filtu.....	4,657	2,547	3,840	0.82	20,814	4.11	3
Dolo Odo .....	5,232	611	848	0.16	7,073	6.69	2
Moyale.....	8,022	2,685	4,715	0.59	30,135	3.67	3

TABLE 8.8A:- Number of Holders Reporting 'Erfe'(Handle) Owned, Quantity Reported, Replacement Value, and Duration of Service of 'Erfe', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Erfe's' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Erfe' (Birr)	Average Duration of Service of 'Erfe' (Years)
Somali Region .....	89,389	56,807	66,118	0.74	432,066	5.76	3
Shinele Zone.....	2,674	955	976	0.36	3,107	3.15	1
Shinele .....	560	75	75	0.13	323	4.31	2
Erer .....	2,114	879	901	0.43	2,784	3.06	1
Jijiga Zone .....	68,805	49,902	57,803	0.84	403,095	6.16	3
Jijiga .....	35,862	25,168	29,690	0.83	181,268	5.21	2
Teferi Ber .....	18,096	13,076	14,909	0.82	106,261	6.54	3
Kebri Beyah.....	14,847	11,658	13,204	0.89	115,566	7.89	3
Liben Zone .....	17,911	5,950	7,339	0.41	25,864	2.91	2
Filtu.....	4,657	2,483	2,796	0.60	8,289	2.81	2
Dolo Odo .....	5,232	818	853	0.16	2,387	2.31	1
Moyale.....	8,022	2,650	3,690	0.46	15,188	3.12	2

TABLE 8. 9A:- Number of Holders Reporting Plough-Beam Owned, Quantity Reported, Replacement Value, and Duration of Service of Plough-Beam, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Plough-Beams Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Plough-Beam (Birr)	Average Duration of Service of Plough-Beam (Years)
Somali Region .....	89,389	59,313	61,947	0.69	1,508,907	23.62	5
Shinele Zone.....	2,674	962	974	0.36	18,281	18.65	4
Shinele .....	560	83	83	0.15	1,895	22.83	4
Erer .....	2,114	879	891	0.42	16,385	18.26	4
Jijiga Zone .....	68,805	52,132	54,022	0.79	1,395,185	25.14	5
Jijiga .....	35,862	26,368	27,088	0.76	710,118	25.73	4
Teferi Ber .....	18,096	13,470	13,818	0.76	365,021	25.96	6
Kebri Beyah.....	14,847	12,294	13,115	0.88	320,047	23.08	4
Liben Zone .....	17,911	6,218	6,951	0.39	95,441	12.43	4

Filtu.....	4,657	2,555	2,769	0.59	35,237	11.92	5
Dolo Odo .....	5,232	962	1,002	0.19	13,412	12.98	2
Moyale.....	8,022	2,701	3,180	0.40	46,792	12.71	4

TABLE 8.10A: - Number of Holders Reporting Plough-Tip (Metal) Owned, Quantity Reported, Replacement Value, and Duration of Service of Plough-Tip, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Plough-Tips Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Plough-Tip (Birr)	Average Duration of Service of Plough-Tip (Years)
Somali Region .....	89,389	58,508	62,867	0.70	1,466,256	21.92	6
Shinele Zone .....	2,674	1,034	1,081	0.40	15,782	14.08	5
Shinele .....	560	98	113	0.20	1,676	12.91	6
Erer .....	2,114	936	969	0.46	14,106	14.20	4
Jijiga Zone .....	68,805	51,178	54,442	0.79	1,174,291	20.45	5
Jijiga .....	35,862	25,474	26,475	0.74	576,808	20.97	5
Teferi Ber .....	18,096	13,064	13,553	0.75	267,467	19.09	6
Kebri Beyah.....	14,847	12,640	14,414	0.97	330,016	20.79	6
Liben Zone .....	17,911	6,297	7,344	0.41	276,183	33.93	6
Filtu.....	4,657	2,524	2,703	0.58	103,468	36.11	9
Dolo Odo .....	5,232	958	1,010	0.19	89,651	85.89	5
Moyale.....	8,022	2,814	3,631	0.45	83,063	17.85	4

TABLE 8.11A: - Number of Holders Reporting 'Wegel' -Tip Owned, Quantity Reported, Replacement Value, and Duration of Service of 'Wegel' -Tip, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Wegel' -Tips Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Wegel' -Tip (Birr)	Average Duration of Service of 'Wegel' -Tip (Years)
Somali Region .....	89,389	57,198	70,981	0.79	546,422	6.81	4
Shinele Zone .....	2,674	937	966	0.36	5,872	5.83	5
Shinele .....	560	85	92	0.16	870	8.69	5
Erer .....	2,114	852	874	0.41	5,003	5.53	4
Jijiga Zone .....	68,805	50,122	62,927	0.91	467,369	6.54	4
Jijiga .....	35,862	25,703	26,755	0.75	224,093	8.04	3
Teferi Ber .....	18,096	12,700	18,183	1.00	123,705	5.25	5
Kebri Beyah.....	14,847	11,719	17,989	1.21	119,571	5.62	4
Liben Zone .....	17,911	6,139	7,087	0.40	73,180	9.26	5
Filtu.....	4,657	2,543	2,715	0.58	32,445	11.36	6
Dolo Odo .....	5,232	886	969	0.19	12,680	12.20	4
Moyale.....	8,022	2,710	3,404	0.42	28,055	6.75	4

TABLE 8.12A: - Number of Holders Reporting Yoke Owned, Quantity Reported, Replacement Value, and Duration of Service of Yoke, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Yokes Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Yoke (Birr)	Average Duration of Service of Yoke (Years)
Somali Region .....	89,389	59,604	63,109	0.71	1,153,825	17.37	4
Shinele Zone .....	2,674	973	986	0.37	12,841	12.95	4
Shinele .....	560	95	95	0.17	1,504	15.83	4
Erer .....	2,114	877	891	0.42	11,337	12.65	4
Jijiga Zone .....	68,805	52,409	55,142	0.80	1,058,645	18.30	4
Jijiga .....	35,862	26,356	26,854	0.75	493,209	18.02	4
Teferi Ber .....	18,096	13,665	14,796	0.82	284,948	17.69	6
Kebri Beyah.....	14,847	12,387	13,493	0.91	280,488	19.51	4
Liben Zone.....	17,911	6,222	6,981	0.39	82,339	10.63	4

Filtu.....	4,657	2,571	2,760	0.59	28,267	9.67	4
Dolo Odo .....	5,232	958	1,018	0.19	11,260	10.56	2
Moyale.....	8,022	2,693	3,203	0.40	42,812	11.47	4

TABLE 8.13A: -Number of Holders Reporting Sickle Owned, Quantity Reported, Replacement Value, and Duration of Service of Sickle, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Sickles Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Sickle (Birr)	Average Duration of Service of Sickle (Years)
Somali Region .....	89,389	59,095	81,139	0.91	1,092,145	9.75	5
Shinele Zone .....	2,674	943	1,032	0.39	9,448	8.46	5
Shinele .....	560	276	294	0.53	2,211	6.97	6
Erer .....	2,114	667	738	0.35	7,237	9.05	4
Jijiga Zone .....	68,805	54,236	75,045	1.09	1,035,214	9.94	5
Jijiga.....	35,862	29,050	39,442	1.10	569,509	10.50	5
Teferi Ber.....	18,096	12,756	17,392	0.96	212,515	9.02	5
Kebri Beyah.....	14,847	12,430	18,211	1.23	253,190	9.59	5
Liben Zone.....	17,911	3,916	5,063	0.28	47,483	7.32	5
Filtu.....	4,657	574	699	0.15	9,941	11.89	6
Dolo Odo .....	5,232	553	791	0.15	6,144	5.85	5
Moyale.....	8,022	2,789	3,573	0.45	31,399	6.76	5

TABLE 8.14A: - Number of Holders Reporting Hay-Fork (Metal) Owned, Quantity Reported, Replacement Value, and Duration of Service of Hay-Fork, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Hay-Forks Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Hay-Fork (Birr)	Average Duration of Service of Hay-Fork (Years)
Somali Region .....	89,389	680	731	0.01	8,890	10.25	5
Shinele Zone .....	2,674	43	43	0.02	485	11.28	10
Shinele .....	560	26	26	0.05	187	7.18	13
Erer .....	2,114	*	*	-	*	*	*
Jijiga Zone .....	68,805	597	648	0.01	7,761	9.82	5
Jijiga .....	35,862	396	396	0.01	*	*	5
Teferi Ber .....	18,096	147	147	0.01	1,803	9.74	6
Kebri Beyah.....	14,847	*	*	-	*	*	*
Liben Zone .....	17,911	40	40	0.00	*	*	*
Filtu.....	4,657	-	-	-	-	-	-
Dolo Odo .....	5,232	14	14	0.00	173	12.38	4
Moyale.....	8,022	*	*	-	*	*	*

TABLE 8.15A: - Number of Holders Reporting Hay-Fork (Wood) Owned, Quantity Reported, Replacement Value, and Duration of Service of Hay-Fork, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Hay-Forks Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Hay-Fork (Birr)	Average Duration of Service of Hay-Fork (Years)
Somali Region .....	89,389	29,563	33,306	0.37	340,297	8.99	4
Shinele Zone .....	2,674	649	719	0.27	3,600	4.55	3
Shinele .....	560	46	46	0.08	303	6.58	4
Erer .....	2,114	604	673	0.32	3,298	4.41	3
Jijiga Zone .....	68,805	28,770	32,415	0.47	335,595	9.11	4
Jijiga .....	35,862	18,186	20,102	0.56	227,636	10.14	3
Teferi Ber .....	18,096	8,893	10,028	0.55	85,458	7.57	4
Kebri Beyah.....	14,847	1,691	2,285	0.15	*	6.82	4



Liben Zone .....	17,911	*	*	-	*	*	*
Filtu.....	4,657	*	*	-	*	*	*
Dolo Odo .....	5,232	14	14	0.00	289	20.63	2
Moyale.....	8,022	*	*	-	*	*	*

TABLE 8.16A: - Number of Holders Reporting Threshing Stick Owned, Quantity Reported, Replacement Value, and Duration of Service of Threshing Stick, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Threshing Sticks Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Threshing Stick (Birr)	Average Duration of Service of Threshing Stick (Years)
Somali Region .....	89,389	41,576	89,151	1.00	386,633	2.36	2
Shinele Zone.....	2,674	1,308	3,733	1.40	7,600	0.78	1
Shinele .....	560	91	112	0.20	474	3.30	3
Erer .....	2,114	1,218	3,622	1.71	7,126	0.70	1
Jijiga Zone .....	68,805	36,469	78,189	1.14	349,374	2.37	2
Jijiga .....	35,862	21,208	34,627	0.97	184,953	3.37	2
Teferi Ber .....	18,096	11,010	29,233	1.62	113,235	1.62	2
Kebri Beyah.....	14,847	4,252	14,329	0.97	51,186	1.50	3
Liben Zone .....	17,911	3,799	7,228	0.40	29,659	3.03	3
Filtu.....	4,657	707	2,307	0.50	2,870	0.41	2
Dolo Odo .....	5,232	1,642	1,979	0.38	19,141	8.60	4
Moyale.....	8,022	1,450	2,942	0.37	7,649	1.33	3

TABLE 8.17A: - Number of Holders Reporting Winnowers (Metal) Owned, Quantity Reported, Replacement Value, and Duration of Service of Winnowers, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Winnowers Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Winnowers (Birr)	Average Duration of Service of Winnowers (Years)
Somali Region .....	89,389	197	197	0.00	*	*	6
Shinele Zone.....	2,674	55	55	0.02	797	14.49	10
Shinele .....	560	20	20	0.04	189	9.47	13
Erer .....	2,114	36	36	0.02	608	16.88	8
Jijiga Zone .....	68,805	*	*	-	*	*	*
Jijiga .....	35,862	*	*	-	*	*	*
Teferi Ber .....	18,096	-	-	-	-	-	-
Kebri Beyah.....	14,847	-	-	-	-	-	-
Liben Zone .....	17,911	*	*	-	*	*	*
Filtu.....	4,657	-	-	-	-	-	-
Dolo Odo .....	5,232	-	-	-	-	-	-
Moyale.....	8,022	*	*	-	*	*	*

TABLE 8.18A:- Number of Holders Reporting Winnowers(Wood) Owned, Quantity Reported, Replacement Value, and Duration of Service of Winnowers, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Winnowers Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Winnowers (Birr)	Average Duration of Service of Winnowers (Years)
Somali Region .....	89,389	16,756	18,393	0.21	218,041	11.18	4
Shinele Zone.....	2,674	530	544	0.20	3,958	7.20	5
Shinele .....	560	25	25	0.04	220	8.80	7
Erer .....	2,114	505	519	0.25	3,738	7.12	5
Jijiga Zone .....	68,805	16,133	17,725	0.26	213,322	11.35	4
Jijiga .....	35,862	7,688	7,935	0.22	99,775	12.35	4
Teferi Ber .....	18,096	7,646	8,990	0.50	106,656	10.71	5
Kebri Beyah.....	14,847	800	800	0.05	6,891	8.61	4
Liben Zone .....	17,911	*	*	-	*	*	*

Filtu.....	4,657	-	-	-	-	-	-
Dolo Odo .....	5,232	-	-	-	-	-	-
Moyale.....	8,022	*	*	-	*	*	*

TABLE 8. 19A: - Number of Holders Reporting Cart Owned, Quantity Reported, Replacement Value, Duration of Service of Cart, for Private Holdings.

Geographic Area.	Total Number of Crop Holders	Number of Holders Reporting	Number of Carts Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Cart (Birr)	Average Duration of Service of Cart (Years)
Somali Region .....	89,389	609	674	0.01	650,286	890.80	16
Shinele Zone .....	2,674	-	-	-	-	-	-
Shinele .....	560	-	-	-	-	-	-
Erer .....	2,114	-	-	-	-	-	-
Jijiga Zone .....	68,805	221	221	0.00	*	*	10
Jijiga .....	35,862	-	-	-	-	-	-
Teferi Ber .....	18,096	-	-	-	-	-	-
Kebri Beyah.....	14,847	221	221	0.01	*	*	10
Liben Zone .....	17,911	388	453	0.03	460,119	905.59	19
Filtu.....	4,657	-	-	-	-	-	-
Dolo Odo .....	5,232	370	424	0.08	444,080	929.83	19
Moyale.....	8,022	*	*	-	*	*	*

TABLE 8. 20A: - Number of Holders Reporting Sprayer (Hand operated) Owned, Quantity Reported, Replacement Value, Duration of Service of Sprayer, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Sprayers Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Sprayer (Birr)	Average Duration of Service of Sprayer (Years)
Somali Region .....	89,389	296	353	0.00	*	*	6
Shinele Zone .....	2,674	13	13	0.00	2,123	163.32	6
Shinele .....	560	13	13	0.02	2,123	163.32	6
Erer .....	2,114	-	-	-	-	-	-
Jijiga Zone .....	68,805	179	*	-	*	*	6
Jijiga .....	35,862	*	*	-	*	*	*
Teferi Ber .....	18,096	*	*	-	*	*	*
Kebri Beyah.....	14,847	*	*	-	*	*	*
Liben Zone .....	17,911	104	104	0.01	*	*	5
Filtu.....	4,657	-	-	-	-	-	-
Dolo Odo .....	5,232	-	-	-	-	-	-
Moyale.....	8,022	104	104	0.01	*	*	5

TABLE 8.21A: - Number of Holders Reporting Wheelbarrow Owned, Quantity Reported, Replacement Value and Duration of Service of Wheelbarrow, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Wheelbarrows Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Wheelbarrow (Birr)	Average Duration of Service of Wheelbarrow (Years)
Somali Region .....	89,389	1,532	1,687	0.02	363,920	197.30	7
Shinele Zone .....	2,674	36	36	0.01	4,240	117.77	7
Shinele .....	560	-	-	-	-	-	-
Erer .....	2,114	36	36	0.02	4,240	117.77	7
Jijiga Zone .....	68,805	1,205	1,352	0.02	297,555	197.21	7
Jijiga .....	35,862	*	*	-	*	*	*
Teferi Ber .....	18,096	*	*	-	*	*	*
Kebri Beyah.....	14,847	906	1,028	0.07	213,467	184.88	8
Liben Zone .....	17,911	291	299	0.02	62,125	207.26	7
Filtu.....	4,657	*	*	-	*	*	*

Dolo Odo .....	5,232	8	15	0.00	305	10.17	5
Moyale .....	8,022	268	268	0.03	61,063	227.85	7

TABLE 8.22A: - Number of Holders Reporting Ass (Specifically for ploughing) Owned, Quantity Reported, Replacement Value and Average age of Ass, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Asses Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Ass (Birr)	Average Age of Ass (Years)
Somali Region .....	89,389	657	842	0.01	358,052	343.57	7
Shinele Zone .....	2,674	-	-	-	-	-	-
Shinele .....	560	-	-	-	-	-	-
Erer .....	2,114	-	-	-	-	-	-
Jijiga Zone .....	68,805	634	788	0.01	328,394	350.90	7
Jijiga .....	35,862	*	*	-	*	*	*
Teferi Ber .....	18,096	371	412	0.02	152,897	346.86	8
Kebri Beyah .....	14,847	149	192	0.01	134,281	553.44	6
Liben Zone .....	17,911	23	54	0.00	29,658	236.56	6
Filtu .....	4,657	*	*	-	*	*	*
Dolo Odo .....	5,232	14	29	0.01	17,328	298.76	4
Moyale .....	8,022	-	-	-	-	-	-

TABLE 8.23A: - Number of Holders Reporting Camel (Specifically For Ploughing) Owned, Quantity Reported, Replacement Value and Average age of Camel, for Private Holdings

Geographic Area.	Total Number of Crop Holders	Number of Holders Reporting	Number of Camels Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Camel (Birr)	Average Age of Camel (Years)
Somali Region .....	89,389	518	628	0.01	618,116	814.44	10
Shinele Zone .....	2,674	-	-	-	-	-	-
Shinele .....	560	-	-	-	-	-	-
Erer .....	2,114	-	-	-	-	-	-
Jijiga Zone .....	68,805	518	628	0.01	618,116	814.44	10
Jijiga .....	35,862	-	-	-	-	-	-
Teferi Ber .....	18,096	501	611	0.03	594,274	798.08	*
Kebri Beyah .....	14,847	*	*	-	*	*	*
Liben Zone .....	17,911	-	-	-	-	-	-
Filtu .....	4,657	-	-	-	-	-	-
Dolo Odo .....	5,232	-	-	-	-	-	-
Moyale .....	8,022	-	-	-	-	-	-

TABLE 8.24A: -Number of Holders Reporting Ox (Specifically for ploughing) Owned, Quantity Reported, Replacement Value and Average age of Ox, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Oxen Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Ox (Birr)	Average Age of Ox (Years)
Somali Region .....	89,389	52,276	92,340	1.03	61,276,704	381.48	6
Shinele Zone .....	2,674	993	1,464	0.55	1,006,307	468.86	5
Shinele .....	560	73	112	0.20	78,174	460.14	5
Erer .....	2,114	919	1,352	0.64	928,133	469.58	6
Jijiga Zone .....	68,805	46,462	80,936	1.18	54,168,330	390.00	6
Jijiga .....	35,862	22,135	37,789	1.05	23,984,013	372.70	6
Teferi Ber .....	18,096	12,115	19,654	1.09	13,307,692	442.18	6
Kebri Beyah .....	14,847	12,211	23,493	1.58	16,876,625	374.17	6

Liben Zone .....	17,911	4,822	9,940	0.55	6,102,067	299.23	7
Filtu.....	4,657	1,950	4,071	0.87	2,344,256	284.53	7
Dolo Odo .....	5,232	852	1,743	0.33	1,038,959	285.49	6
Moyale.....	8,022	2,020	4,125	0.51	2,718,852	319.62	7

TABLE 8.25A: - Number of Holders Reporting Ass (For transportation/ threshing) Owned, Quantity Reported, Replacement Value and Average age of Ass, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Asses Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Ass (Birr)	Average Age of Ass (Years)
Somali Region .....	89,389	37,495	45,928	0.51	12,547,418	221.86	9
Shinele Zone.....	2,674	647	748	0.28	173,860	188.26	6
Shinele .....	560	129	156	0.28	51,621	254.62	8
Erer .....	2,114	518	592	0.28	122,239	170.77	6
Jijiga Zone .....	68,805	30,123	36,327	0.53	8,893,951	204.38	8
Jijiga .....	35,862	19,068	23,120	0.64	5,538,137	196.60	8
Teferi Ber .....	18,096	8,344	9,759	0.54	2,502,729	222.21	8
Kebri Beyah.....	14,847	2,710	3,447	0.23	853,085	206.11	9
Liben Zone .....	17,911	6,725	8,854	0.49	3,479,607	296.40	12
Filtu.....	4,657	1,936	2,764	0.59	978,104	246.67	10
Dolo Odo .....	5,232	2,719	3,494	0.67	1,338,153	295.53	14
Moyale.....	8,022	2,071	2,596	0.32	1,163,350	350.54	12

TABLE 8.26A: - Number of Holders Reporting Camel (For threshing/ transportation) Owned, Quantity Reported, Replacement Value and Average age of Camel, for Private Holdings

Geographic Area.	Total Number of Crop Holders	Number of Holders Reporting	Number of Camels Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Camel (Birr)	Average Age of Camel (Years)
Somali Region .....	89,389	11,365	16,091	0.18	17,232,801	772.07	11
Shinele Zone.....	2,674	165	274	0.10	301,272	676.45	10
Shinele .....	560	19	26	0.05	26,387	717.65	12
Erer .....	2,114	145	249	0.12	274,885	669.43	9
Jijiga Zone .....	68,805	8,113	10,172	0.15	12,255,092	960.97	11
Jijiga .....	35,862	783	973	0.03	1,099,188	936.81	11
Teferi Ber .....	18,096	2,697	3,879	0.21	4,109,208	753.44	10
Kebri Beyah.....	14,847	4,633	5,319	0.36	7,046,696	1,116.92	11
Liben Zone .....	17,911	3,087	5,645	0.32	4,676,437	436.31	11
Filtu.....	4,657	1,804	2,959	0.64	2,328,159	442.83	11
Dolo Odo .....	5,232	276	437	0.08	380,709	546.03	14
Moyale.....	8,022	1,007	2,249	0.28	1,967,569	406.41	11

TABLE 8.27A: - Number of Holders Reporting Cattle (Working Age for Threshing/ Transportation) Owned, Quantity Reported, Replacement Value and Average age of Cattle, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Cattle Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Cattle (Birr)	Average Age of Cattle (Years)
Somali Region .....	89,389	49,186	99,077	1.11	64,826,868	334.96	6
Shinele Zone.....	2,674	1,015	1,514	0.57	1,060,264	470.74	6
Shinele .....	560	84	134	0.24	92,863	439.39	4
Erer .....	2,114	931	1,380	0.65	967,401	473.78	6
Jijiga Zone .....	68,805	44,580	89,777	1.30	58,930,693	337.00	6
Jijiga .....	35,862	20,187	34,933	0.97	22,727,861	375.87	6
Teferi Ber .....	18,096	11,885	27,850	1.54	17,423,797	294.33	7
Kebri Beyah.....	14,847	12,509	26,994	1.82	18,779,035	330.70	6

Liben Zone .....	17,911	3,590	7,786	0.43	4,835,911	285.13	8
Filtu.....	4,657	1,426	3,022	0.65	1,822,530	288.03	8
Dolo Odo .....	5,232	399	901	0.17	528,599	260.55	7
Moyale.....	8,022	1,765	3,863	0.48	2,484,782	288.59	7

TABLE 8.28A:- Number of Holders Reporting Mule (For threshing/ transportation) Owned, Quantity Reported, Replacement Value and Average age of Mule, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Mules Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Mule (Birr)	Average Age of Mule (Years)
Somali Region .....	89,389	94	*	-	*	*	10
Shinele Zone.....	2,674	24	24	0.01	24,693	1,028.88	14
Shinele .....	560	7	7	0.01	14,637	2,091.00	15
Erer .....	2,114	*	*	-	*	*	*
Jijiga Zone .....	68,805	*	*	-	*	*	*
Jijiga .....	35,862	-	-	-	-	-	-
Teferi Ber .....	18,096	*	*	-	*	*	*
Kebri Beyah.....	14,847	*	*	-	*	*	*
Liben Zone .....	17,911	*	*	-	*	*	*
Filtu.....	4,657	*	*	-	*	*	*
Dolo Odo .....	5,232	-	-	-	-	-	-
Moyale.....	8,022	-	-	-	-	-	-

TABLE 8.29A:- Number of Holders Reporting 'Debignit' Owned, Quantity Reported, Replacement Value and Storage Capacity of 'Debignit', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Debignits' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Debignit' (Birr)	Average Storage Capacity of 'Debignit' (Quintal)
Somali Region .....	89,389	425	425	0.00	19,158	45.08	6
Shinele Zone.....	2,674	52	52	0.02	1,435	27.59	6
Shinele .....	560	-	-	-	-	-	-
Erer .....	2,114	52	52	0.02	1,435	27.59	6
Jijiga Zone .....	68,805	357	357	0.01	16,960	47.51	6
Jijiga .....	35,862	295	295	0.01	12,180	41.29	5
Teferi Ber .....	18,096	-	-	-	-	-	-
Kebri Beyah.....	14,847	*	*	-	*	*	*
Liben Zone .....	17,911	*	*	-	763	*	*
Filtu.....	4,657	*	*	-	*	*	*
Dolo Odo .....	5,232	3	3	0.00	290	96.67	10
Moyale.....	8,022	-	-	-	-	-	-

TABLE 8.30A: - Number of Holders Reporting 'Gottera' Owned, Quantity Reported, Replacement Value and Storage Capacity of 'Gottera', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Gottaras' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Gottera' (Birr)	Average Storage Capacity of 'Gottera' (Quintal)
Somali Region .....	89,389	6,264	6,739	0.08	969,582	136.33	26
Shinele Zone.....	2,674	36	36	0.01	775	21.54	6
Shinele .....	560	-	-	-	-	-	-
Erer .....	2,114	36	36	0.02	775	21.54	6
Jijiga Zone .....	68,805	*	*	-	*	*	*
Jijiga .....	35,862	*	*	-	*	*	*
Teferi Ber .....	18,096	-	-	-	-	-	-
Kebri Beyah.....	14,847	-	-	-	-	-	-
Liben Zone .....	17,911	5,200	5,676	0.32	924,772	153.97	29

Filtu.....	4,657	1,846	2,065	0.44	278,153	119.28	29
Dolo Odo .....	5,232	856	877	0.17	317,478	359.96	39
Moyale.....	8,022	2,499	2,733	0.34	329,140	114.13	25

TABLE 8.31A: - Number of Holders Reporting 'Gudguad' Owned, Quantity Reported, Replacement Value and Storage Capacity of 'Gudguad', for Private Holdings.

Geographic Area.	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Gudguads' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Gudguad' (Birr)	Average Storage Capacity of 'Gudguad' (Quintal)
Somali Region .....	89,389	43,300	56,116	0.63	5,518,748	77.41	14
Shinele Zone .....	2,674	639	639	0.24	27,126	42.45	13
Shinele .....	560	17	17	0.03	1,163	68.38	5
Erer .....	2,114	622	622	0.29	25,963	41.74	13
Jijiga Zone .....	68,805	42,485	55,213	0.80	5,467,769	77.92	14
Jijiga .....	35,862	26,867	35,284	0.98	3,163,122	70.86	12
Teferi Ber .....	18,096	8,935	12,217	0.68	1,649,749	97.58	20
Kebri Beyah.....	14,847	6,683	7,713	0.52	654,898	79.11	18
Liben Zone .....	17,911	177	264	0.01	23,854	55.47	10
Filtu.....	4,657	*	*	-	*	*	*
Dolo Odo .....	5,232	102	170	0.03	18,624	63.77	10
Moyale.....	8,022	-	-	-	-	-	-

TABLE 8. 32A - Number of Holders Reporting Modern Storage Facilities Owned, Quantity Reported, Replacement Value and Storage Capacity of Modern Storage, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Modern Storages Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Modern Storage (Birr)	Average Storage Capacity of Modern Storage (Quintal)
Somali Region .....	89,389	5	5	0.00	182	36.47	13
Shinele Zone .....	2,674	-	-	-	-	-	-
Shinele .....	560	-	-	-	-	-	-
Erer .....	2,114	-	-	-	-	-	-
Jijiga Zone .....	68,805	-	-	-	-	-	-
Jijiga .....	35,862	-	-	-	-	-	-
Teferi Ber .....	18,096	-	-	-	-	-	-
Kebri Beyah.....	14,847	-	-	-	-	-	-
Liben Zone .....	17,911	5	5	0.00	182	36.47	13
Filtu.....	4,657	-	-	-	-	-	-
Dolo Odo .....	5,232	5	5	0.00	182	36.47	13
Moyale.....	8,022	-	-	-	-	-	-

STATISTICAL TABLES PRESENTING THE CENSUS  
RESULTS AT  
ZONAL AND WOREDA LEVELS

Tables 8.1B- 8.32B

Table 8.1B:- Number of Crop Holders that Owned Axe by Geographic area.

Geographic Area	Number of Crop holders that owned											
	No Axe		One Axe		Two Axes		Three Axes		Four Axes		Five and above Axes	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	14,753	16.50	54,261	60.70	15,736	17.60	3,124	3.49	872	0.98	643	0.72
Shinele Zone.....	1,011	37.81	958	35.83	370	13.84	177	6.62	66	2.47	92	3.44
Shinele .....	125	22.32	324	57.86	77	13.75	28	5.00	6	1.07	-	-
Erer .....	885	41.86	635	30.04	293	13.86	149	7.05	60	2.84	92	4.35
Jijiga Zone .....	10,496	15.25	44,470	64.63	11,793	17.14	1,720	2.50	189	0.27	137	0.20
Jijiga .....	6,573	18.33	22,583	62.97	5,623	15.68	906	2.53	67	0.19	110	0.31
Teferi Ber .....	2,436	13.46	12,454	68.82	2,862	15.82	325	1.80	19	0.10	-	-
Kebri Beyah.....	1,485	10.00	9,433	63.53	3,308	22.28	489	3.29	104	0.70	28	0.19
Liben Zone .....	3,247	18.13	8,833	49.32	3,574	19.95	1,227	6.85	616	3.44	414	2.31
Filtu.....	935	20.08	2,300	49.39	973	20.89	346	7.43	91	1.95	12	0.26
Dolo Odo .....	620	11.85	2,829	54.07	1,241	23.72	308	5.89	171	3.27	63	1.20
Moyale.....	1,694	21.12	3,704	46.17	1,360	16.95	572	7.13	354	4.41	338	4.21

Table 8.2B:- Number of Crop Holders that Owned 'Gejera' by Geographic area.

Geographic area	Number of Crop holders that owned											
	No 'Gejera'		One 'Gejera'		Two 'Gejeras'		Three 'Gejeras'		Four 'Gejeras'		Five and above 'Gejeras'	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	76,053	85.08	11,310	12.65	1,620	1.81	329	0.37	35	0.04	42	0.05
Shinele Zone .....	2,339	87.47	260	9.72	62	2.32	13	0.49	-	-	-	-
Shinele .....	511	91.25	49	8.75	-	-	-	-	-	-	-	-
Erer.....	1,828	86.47	211	9.98	62	2.93	13	0.61	-	-	-	-
Jijiga Zone .....	60,956	88.59	6,818	9.91	842	1.22	189	0.27	-	-	-	-
Jijiga.....	31,966	89.14	3,203	8.93	560	1.56	133	0.37	-	-	-	-
Teferi Ber.....	16,397	90.61	1,403	7.75	240	1.33	56	0.31	-	-	-	-
Kebri Beyah.....	12,594	84.83	2,211	14.89	42	0.28	-	-	-	-	-	-
Liben Zone.....	12,760	71.24	4,231	23.62	715	3.99	128	0.71	35	0.20	42	0.23
Filtu.....	4,064	87.27	452	9.71	131	2.81	10	0.21	-	-	-	-
Dolo Odo .....	3,154	60.28	1,647	31.48	299	5.71	77	1.47	35	0.67	20	0.38
Moyale .....	5,541	69.07	2,132	26.58	286	3.57	41	0.51	-	-	22	0.27

Table 8.3B:- Number of Crop Holders that Owned Shovel by Geographic area

Geographic area	Number of Crop holders that owned											
	No Shovel		One Shovel		Two Shovels		Three Shovels		Four Shovels		Five and above Shovels	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	31,532	35.28	42,454	47.49	12,443	13.92	2,039	2.28	597	0.67	324	0.36
Shinele Zone .....	320	11.97	1,328	49.66	669	25.02	182	6.81	95	3.55	80	2.99
Shinele .....	207	36.96	333	59.46	20	3.57	-	-	-	-	-	-
Erer.....	113	5.35	995	47.07	649	30.70	182	8.61	95	4.49	80	3.78
Jijiga Zone .....	19,270	28.01	36,430	52.95	10,823	15.73	1,689	2.45	435	0.63	158	0.23
Jijiga.....	9,613	26.81	18,720	52.20	6,170	17.20	1,177	3.28	75	0.21	107	0.30
Teferi Ber.....	6,450	35.64	8,624	47.66	2,468	13.64	336	1.86	218	1.20	-	-
Kebri Beyah.....	3,206	21.59	9,086	61.20	2,185	14.72	176	1.19	142	0.96	52	0.35



Liben Zone.....	11,943	66.68	4,696	26.22	952	5.32	167	0.93	67	0.37	86	0.48
Filtu.....	3,524	75.67	958	20.57	112	2.40	48	1.03	15	0.32	-	-
Dolo Odo .....	3,167	60.53	1,514	28.94	426	8.14	69	1.32	19	0.36	37	0.71
Moyale .....	5,254	65.49	2,223	27.71	414	5.16	50	0.62	33	0.41	48	0.60

Table 8.4B: - Number of Crop Holders that Owned Hoe by Geographic area

Geographic area	Number of Crop holders that owned											
	No Hoe		One Hoe		Two Hoes		Three Hoes		Four Hoes		Five and above Hoes	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	49,326	55.18	33,094	37.02	5,859	6.55	787	0.88	223	0.25	100	0.11
Shinele Zone .....	1,131	42.30	1,292	48.32	239	8.94	-	-	12	0.45	-	-
Shinele .....	401	71.61	147	26.25	12	2.14	-	-	-	-	-	-
Erer.....	731	34.58	1,144	54.12	227	10.74	-	-	12	0.57	-	-
Jijiga Zone.....	33,589	48.82	29,880	43.43	4,666	6.78	565	0.82	105	0.15	-	-
Jijiga.....	14,678	40.93	18,670	52.06	2,236	6.24	245	0.68	33	0.09	-	-
Teferi Ber.....	10,517	58.12	6,128	33.86	1,179	6.52	225	1.24	47	0.26	-	-
Kebri Beyah .....	8,394	56.54	5,082	34.23	1,250	8.42	95	0.64	26	0.18	-	-
Liben Zone.....	14,608	81.56	1,923	10.74	954	5.33	221	1.23	105	0.59	100	0.56
Filtu.....	3,920	84.17	407	8.74	264	5.67	37	0.79	29	0.62	-	-
Dolo Odo .....	3,693	70.58	957	18.29	311	5.94	113	2.16	58	1.11	100	1.91
Moyale .....	6,994	87.19	559	6.97	378	4.71	72	0.90	19	0.24	-	-

Table 8.5B: - Number of Crop Holders that Owned 'Mekeskesha' by Geographic area

Geographic area	Number of Crop holders that owned											
	No 'Mekeskesha'		One 'Mekeskesha'		Two 'Mekeskeshas'		Three 'Mekeskeshas'		Four 'Mekeskeshas'		Five and above 'Mekeskeshas'	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	83,162	93.03	5,662	6.33	507	0.57	20	0.02	19	0.02	19	0.02
Shinele Zone .....	2,603	97.34	61	2.28	6	0.22	2	0.07	2	0.07	-	-
Shinele .....	525	93.75	35	6.25	-	-	-	-	-	-	-	-
Erer.....	2,077	98.25	27	1.28	6	0.28	2	0.09	2	0.09	-	-
Jijiga Zone.....	63,443	92.21	4,970	7.22	373	0.54	19	0.03	-	-	-	-
Jijiga.....	34,247	95.50	1,585	4.42	30	0.08	-	-	-	-	-	-
Teferi Ber.....	14,836	81.98	2,933	16.21	308	1.70	19	0.10	-	-	-	-
Kebri Beyah .....	14,359	96.71	453	3.05	35	0.24	-	-	-	-	-	-
Liben Zone.....	17,117	95.57	631	3.52	127	0.71	-	-	17	0.09	19	0.11
Filtu.....	4,633	99.48	24	0.52	-	-	-	-	-	-	-	-
Dolo Odo .....	5,031	96.16	132	2.52	69	1.32	-	-	-	-	-	-
Moyale .....	7,454	92.92	474	5.91	58	0.72	-	-	17	0.21	19	0.24

Table 8.6B:- Number of Crop Holders that Owned Pick-Axe by Geographic area

Geographic area	Number of Crop holders that owned											
	No Pick-Axe		One Pick-Axe		Two Pick-Axes		Three Pick-Axes		Four Pick-Axes		Five and above Pick-Axes	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region.....	71,428	79.91	14,074	15.74	3,037	3.40	643	0.72	187	0.21	20	0.02
Shinele Zone .....	2,456	91.85	211	7.89	7	0.26	-	-	-	-	-	-
Shinele .....	439	78.39	121	21.61	-	-	-	-	-	-	-	-
Erer.....	2,018	95.46	89	4.21	7	0.33	-	-	-	-	-	-
Jijiga Zone.....	56,354	81.90	10,140	14.74	1,893	2.75	349	0.51	69	0.10	-	-
Jijiga.....	30,892	86.14	4,820	13.44	150	0.42	-	-	-	-	-	-
Teferi Ber.....	13,723	75.83	3,404	18.81	779	4.30	143	0.79	47	0.26	-	-

Kebri Beyah .....	11,738	79.06	1,916	12.90	964	6.49	207	1.39	22	0.15	-	-
Liben Zone .....	12,617	70.44	3,724	20.79	1,138	6.35	294	1.64	118	0.66	20	0.11
Filtu .....	3,449	74.06	945	20.29	192	4.12	27	0.58	44	0.94	-	-
Dolo Odo .....	3,865	73.87	921	17.60	334	6.38	91	1.74	21	0.40	-	-
Moyale .....	5,303	66.11	1,858	23.16	612	7.63	176	2.19	53	0.66	20	0.25

Table 8.7B: - Number of Crop Holders that Owned 'Deger' by Geographic area

Geographic area	Number of Crop holders that owned											
	No 'Deger'		One 'Deger'		Two 'Degers'		Three 'Degers'		Four 'Degers'		Five and above 'Degers'	
	Hold	%	Hold	%	Hold	%	Hold	%	Hold	%	Hold	%
	ers		ers		ers		ers		ers		ers	
Somali Region .....	31,253	34.96	32,169	35.99	24,199	27.07	420	0.47	1,145	1.28	203	0.23
Shinele Zone .....	1,740	65.07	489	18.29	445	16.64	-	-	-	-	-	-
Shinele .....	488	87.14	20	3.57	52	9.29	-	-	-	-	-	-
Erer .....	1,252	59.22	470	22.23	392	18.54	-	-	-	-	-	-
Jijiga Zone .....	17,446	25.36	28,715	41.73	21,193	30.80	388	0.56	901	1.31	162	0.24
Jijiga .....	9,825	27.40	16,081	44.84	9,448	26.35	159	0.44	278	0.78	71	0.20
Teferi Ber .....	4,772	26.37	6,110	33.76	6,610	36.53	61	0.34	452	2.50	91	0.50
Kebri Beyah .....	2,851	19.20	6,523	43.93	5,134	34.58	168	1.13	171	1.15	-	-
Liben Zone .....	12,068	67.38	2,965	16.55	2,562	14.30	32	0.18	244	1.36	40	0.22
Filtu .....	2,110	45.31	1,466	31.48	991	21.28	-	-	75	1.61	15	0.32
Dolo Odo .....	4,621	88.32	413	7.89	178	3.40	-	-	20	0.38	-	-
Moyale .....	5,336	66.52	1,086	13.54	1,394	17.38	32	0.40	149	1.86	25	0.31

Table 8.8B:- Number of Crop Holders that Owned 'Erfe' by Geographic area.

Geographic area	Number of Crop holders that owned											
	No 'Erfe'		One 'Erfe'		Two 'Erfe's'		Three 'Erfe's'		Four 'Erfe's'		Five and above 'Erfe's'	
	Hold	%	Hold	%	Hold	%	Hold	%	Hold	%	Hold	%
	ers		ers		ers		ers		ers		ers	
Somali Region .....	32,582	36.45	49,884	55.81	5,059	5.66	1,434	1.60	391	0.44	39	0.04
Shinele Zone .....	1,718	64.25	937	35.04	17	0.64	-	-	2	0.07	-	-
Shinele .....	485	86.61	75	13.39	-	-	-	-	-	-	-	-
Erer .....	1,234	58.37	861	40.73	17	0.80	-	-	2	0.09	-	-
Jijiga Zone .....	18,903	27.47	43,976	63.91	4,292	6.24	1,293	1.88	341	0.50	-	-
Jijiga .....	10,694	29.82	22,048	61.48	1,985	5.54	869	2.42	266	0.74	-	-
Teferi Ber .....	5,021	27.75	11,727	64.80	895	4.95	423	2.34	30	0.17	-	-
Kebri Beyah .....	3,189	21.48	10,201	68.71	1,412	9.51	-	-	45	0.30	-	-
Liben Zone .....	11,960	66.77	4,972	27.76	750	4.19	142	0.79	48	0.27	39	0.22
Filtu .....	2,175	46.70	2,238	48.06	199	4.27	33	0.71	-	-	12	0.26
Dolo Odo .....	4,414	84.37	783	14.97	35	0.67	-	-	-	-	-	-
Moyale .....	5,372	66.97	1,950	24.31	516	6.43	109	1.36	48	0.60	27	0.34

Table 8.9B:- Number of Crop Holders that Owned Plough-Beam by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Plough-Beam		One Plough-Beam		Two Plough-Beams		Three Plough-Beams		Four Plough-Beams		Five and above Plough-Beams	
	Hold	%	Hold	%	Hold	%	Hold	%	Hold	%	Hold	%
	ers		ers		ers		ers		ers		ers	
Somali Region .....	30,075	33.65	57,078	63.85	1,987	2.22	177	0.20	32	0.04	40	0.04
Shinele Zone .....	1,712	64.02	950	35.53	12	0.45	-	-	-	-	-	-
Shinele .....	477	85.18	83	14.82	-	-	-	-	-	-	-	-
Erer .....	1,235	58.42	867	41.01	12	0.57	-	-	-	-	-	-
Jijiga Zone .....	16,672	24.23	50,540	73.45	1,446	2.10	75	0.11	32	0.05	40	0.06
Jijiga .....	9,493	26.47	25,945	72.35	277	0.77	75	0.21	32	0.09	40	0.11
Teferi Ber .....	4,626	25.56	13,123	72.52	347	1.92	-	-	-	-	-	-

Kebri Beyah .....	2,553	17.20	11,472	77.27	822	5.54	-	-	-	-	-	-
Liben Zone .....	11,693	65.28	5,587	31.19	529	2.95	102	0.57	-	-	-	-
Filtu .....	2,102	45.14	2,381	51.13	134	2.88	40	0.86	-	-	-	-
Dolo Odo .....	4,269	81.59	923	17.64	40	0.76	-	-	-	-	-	-
Moyale .....	5,321	66.33	2,284	28.47	355	4.43	62	0.77	-	-	-	-

Table 8.10B:- Number of Crop Holders that Owned Plough-Tip by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Plough-Tip		One Plough-Tip		Two Plough-Tips		Three Plough-Tips		Four Plough-Tips		Five and above Plough-Tips	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	30,881	34.55	54,537	61.01	3,624	4.05	304	0.34	43	0.05	-	-
Shinele Zone .....	1,640	61.33	986	36.87	48	1.80	-	-	-	-	-	-
Shinele .....	462	82.50	83	14.82	15	2.68	-	-	-	-	-	-
Erer .....	1,178	55.72	903	42.72	33	1.56	-	-	-	-	-	-
Jijiga Zone .....	17,627	25.62	48,163	70.00	2,807	4.08	165	0.24	43	0.06	-	-
Jijiga .....	10,388	28.97	24,601	68.60	776	2.16	65	0.18	32	0.09	-	-
Teferi Ber .....	5,032	27.81	12,606	69.66	428	2.37	30	0.17	-	-	-	-
Kebri Beyah .....	2,208	14.87	10,956	73.79	1,603	10.80	69	0.46	11	0.07	-	-
Liben Zone .....	11,614	64.84	5,389	30.09	769	4.29	139	0.78	-	-	-	-
Filtu .....	2,132	45.78	2,361	50.70	149	3.20	15	0.32	-	-	-	-
Dolo Odo .....	4,274	81.69	907	17.34	51	0.97	-	-	-	-	-	-
Moyale .....	5,208	64.92	2,121	26.44	569	7.09	124	1.55	-	-	-	-

Table 8.11B:- Number of Crop Holders that Owned 'wegel'-Tip by Geographic area.

Geographic area	Number of Crop holders that owned											
	No 'wegel'-Tip		One 'wegel'-Tip		Two 'wegel'-Tips		Three 'wegel'-Tips		Four 'wegel'-Tips		Five and above 'wegel'-Tips	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	32,191	36.01	50,230	56.19	3,358	3.76	609	0.68	2,960	3.31	41	0.05
Shinele Zone .....	1,737	64.96	908	33.96	29	1.08	-	-	-	-	-	-
Shinele .....	475	84.82	78	13.93	7	1.25	-	-	-	-	-	-
Erer .....	1,262	59.70	830	39.26	22	1.04	-	-	-	-	-	-
Jijiga Zone .....	18,681	27.15	44,062	64.04	2,513	3.65	556	0.81	2,952	4.29	41	0.06
Jijiga .....	10,158	28.33	24,749	69.01	888	2.48	35	0.10	32	0.09	-	-
Teferi Ber .....	5,395	29.81	9,997	55.24	1,102	6.09	425	2.35	1,177	6.50	-	-
Kebri Beyah .....	3,128	21.07	9,316	62.75	524	3.53	95	0.64	1,743	11.74	41	0.28
Liben Zone .....	11,772	65.72	5,260	29.37	817	4.56	53	0.30	9	0.05	-	-
Filtu .....	2,115	45.42	2,385	51.21	142	3.05	15	0.32	-	-	-	-
Dolo Odo .....	4,346	83.07	803	15.35	83	1.59	-	-	-	-	-	-
Moyale .....	5,312	66.22	2,072	25.83	591	7.37	38	0.47	9	0.11	-	-

Table 8.12B:- Number of Crop Holders that Owned Yoke by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Yoke		One Yoke		Two Yokes		Three Yokes		Four Yokes		Five and above Yokes	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	29,785	33.32	56,472	63.18	2,797	3.13	296	0.33	39	0.04	-	-
Shinele Zone .....	1,702	63.65	959	35.86	13	0.49	-	-	-	-	-	-
Shinele .....	465	83.04	95	16.96	-	-	-	-	-	-	-	-
Erer .....	1,237	58.51	864	40.87	13	0.61	-	-	-	-	-	-
Jijiga Zone .....	16,396	23.83	49,927	72.56	2,261	3.29	189	0.27	32	0.05	-	-
Jijiga .....	9,505	26.50	25,957	72.38	333	0.93	35	0.10	32	0.09	-	-
Teferi Ber .....	4,431	24.49	12,626	69.77	948	5.24	91	0.50	-	-	-	-

Kebri Beyah .....	2,459	16.56	11,345	76.41	980	6.60	63	0.42	-	-	-	-
Liben Zone .....	11,690	65.27	5,585	31.18	522	2.91	107	0.60	7	0.04	-	-
Filtu .....	2,086	44.79	2,412	51.79	129	2.77	30	0.64	-	-	-	-
Dolo Odo .....	4,274	81.69	918	17.55	20	0.38	20	0.38	-	-	-	-
Moyale .....	5,330	66.44	2,255	28.11	373	4.65	57	0.71	7	0.09	-	-

Table 8.13B:- Number of Crop Holders that Owned Sickle by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Sickle		One Sickle		Two Sickles		Three Sickles		Four Sickles		Five and above Sickles	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	30,294	33.89	41,677	46.62	13,871	15.52	2,663	2.98	687	0.77	197	0.22
Shinele Zone .....	1,732	64.77	858	32.09	80	2.99	4	0.15	-	-	-	-
Shinele .....	284	50.71	258	46.07	18	3.21	-	-	-	-	-	-
Erer.....	1,448	68.50	600	28.38	62	2.93	4	0.19	-	-	-	-
Jijiga Zone.....	14,570	21.18	37,779	54.91	13,086	19.02	2,548	3.70	663	0.96	159	0.23
Jijiga.....	6,813	19.00	20,758	57.88	6,748	18.82	1,091	3.04	347	0.97	105	0.29
Teferi Ber.....	5,340	29.51	8,975	49.60	3,057	16.89	610	3.37	95	0.52	19	0.10
Kebri Beyah .....	2,418	16.29	8,045	54.19	3,281	22.10	846	5.70	222	1.50	35	0.24
Liben Zone.....	13,995	78.14	3,040	16.97	705	3.94	111	0.62	23	0.13	37	0.21
Filtu.....	4,083	87.67	482	10.35	64	1.37	24	0.52	4	0.09	-	-
Dolo Odo .....	4,680	89.45	430	8.22	81	1.55	4	0.08	-	-	37	0.71
Moyale .....	5,232	65.22	2,128	26.53	560	6.98	83	1.03	19	0.24	-	-

Table 8.14B:- Number of Crop Holders that Owned Hay-Fork(metal) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Hay-Fork (metal)		One Hay-Fork (metal)		Two Hay-Forks (metal)		Three Hay-Forks (metal)		Four Hay-Forks (metal)		Five and above Hay-Forks (metal)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	88,709	99.24	654	0.73	-	-	26	0.03	-	-	-	-
Shinele Zone .....	2,631	98.39	43	1.61	-	-	-	-	-	-	-	-
Shinele .....	534	95.36	26	4.64	-	-	-	-	-	-	-	-
Erer.....	2,097	99.20	17	0.80	-	-	-	-	-	-	-	-
Jijiga Zone.....	68,207	99.13	572	0.83	-	-	26	0.04	-	-	-	-
Jijiga.....	35,466	98.90	396	1.10	-	-	-	-	-	-	-	-
Teferi Ber.....	17,949	99.19	147	0.81	-	-	-	-	-	-	-	-
Kebri Beyah .....	14,792	99.63	29	0.20	-	-	26	0.18	-	-	-	-
Liben Zone.....	17,871	99.78	40	0.22	-	-	-	-	-	-	-	-
Filtu.....	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo .....	5,218	99.73	14	0.27	-	-	-	-	-	-	-	-
Moyale .....	7,997	99.69	25	0.31	-	-	-	-	-	-	-	-

Table 8.15B:- Number of Crop Holders that Owned Hay-Fork (wood) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Hay-Fork (wood)		One Hay-Fork (wood)		Two Hay-Forks (wood)		Three Hay-Forks (wood)		Four Hay-Forks (wood)		Five and above Hay-Forks (wood)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	59,826	66.93	26,230	29.34	3,011	3.37	263	0.29	28	0.03	31	0.03
Shinele Zone .....	2,025	75.73	606	22.66	29	1.08	7	0.26	-	-	7	0.26
Shinele .....	514	91.79	46	8.21	-	-	-	-	-	-	-	-
Erer.....	1,510	71.43	561	26.54	29	1.37	7	0.33	-	-	7	0.33
Jijiga Zone.....	40,035	58.19	25,499	37.06	2,972	4.32	247	0.36	28	0.04	24	0.03
Jijiga.....	17,676	49.29	16,347	45.58	1,761	4.91	78	0.22	-	-	-	-
Teferi Ber.....	9,202	50.85	7,945	43.90	811	4.48	114	0.63	-	-	24	0.13

Kebri Beyah .....	13,157	88.62	1,207	8.13	400	2.69	55	0.37	28	0.19	-	-
Liben Zone .....	17,766	99.19	125	0.70	10	0.06	10	0.06	-	-	-	-
Filtu .....	4,532	97.32	105	2.25	10	0.21	10	0.21	-	-	-	-
Dolo Odo .....	5,218	99.73	14	0.27	-	-	-	-	-	-	-	-
Moyale .....	8,016	99.93	6	0.07	-	-	-	-	-	-	-	-

Table 8.16B:- Number of Crop Holders that Owned Threshing Stick by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Threshing Stick		One Threshing Stick		Two Threshing Sticks		Three Threshing Sticks		Four Threshing Sticks		Five and above Threshing Sticks	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	47,813	53.49	23,283	26.05	9,036	10.11	3,044	3.41	2,644	2.96	3,569	3.99
Shinele Zone .....	1,367	51.12	570	21.32	348	13.01	115	4.30	31	1.16	243	9.09
Shinele .....	469	83.75	84	15.00	-	-	-	-	7	1.25	-	-
Erer .....	897	42.43	487	23.04	348	16.46	115	5.44	24	1.14	243	11.49
Jijiga Zone .....	32,335	47.00	20,806	30.24	7,565	10.99	2,504	3.64	2,447	3.56	3,148	4.58
Jijiga .....	14,654	40.86	12,948	36.11	5,130	14.30	1,775	4.95	1,067	2.98	288	0.80
Teferi Ber .....	7,087	39.16	5,752	31.79	1,992	11.01	572	3.16	1,069	5.91	1,624	8.97
Kebri Beyah .....	10,595	71.36	2,106	14.18	443	2.98	156	1.05	311	2.09	1,236	8.32
Liben Zone .....	14,112	78.79	1,908	10.65	1,123	6.27	425	2.37	165	0.92	178	0.99
Filtu .....	3,949	84.80	96	2.06	233	5.00	169	3.63	58	1.25	152	3.26
Dolo Odo .....	3,590	68.62	1,336	25.54	274	5.24	32	0.61	-	-	-	-
Moyale .....	6,572	81.92	475	5.92	617	7.69	224	2.79	108	1.35	26	0.32

Table 8.17B:- Number of Crop Holders that Owned Winnower (metal) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Winnower (metal)		One Winnower (metal)		Two Winnowers (metal)		Three Winnowers (metal)		Four Winnowers (metal)		Five and above Winnowers (metal)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	89,192	99.78	197	0.22	-	-	-	-	-	-	-	-
Shinele Zone .....	2,619	97.94	55	2.06	-	-	-	-	-	-	-	-
Shinele .....	540	96.43	20	3.57	-	-	-	-	-	-	-	-
Erer .....	2,078	98.30	36	1.70	-	-	-	-	-	-	-	-
Jijiga Zone .....	68,682	99.82	123	0.18	-	-	-	-	-	-	-	-
Jijiga .....	35,739	99.66	123	0.34	-	-	-	-	-	-	-	-
Teferi Ber .....	18,096	100.00	-	-	-	-	-	-	-	-	-	-
Kebri Beyah .....	14,847	100.00	-	-	-	-	-	-	-	-	-	-
Liben Zone .....	17,892	99.89	19	0.11	-	-	-	-	-	-	-	-
Filtu .....	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo .....	5,232	100.00	-	-	-	-	-	-	-	-	-	-
Moyale .....	8,003	99.76	19	0.24	-	-	-	-	-	-	-	-

Table 8.18B:- Number of Crop Holders that Owned Winnower (wood) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Winnower (wood)		One Winnower (wood)		Two Winnowers (wood)		Three Winnowers (wood)		Four Winnowers (wood)		Five and above Winnowers (wood)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	72,632	81.25	15,505	17.35	957	1.07	204	0.23	91	0.10	-	-
Shinele Zone .....	2,144	80.18	516	19.30	14	0.52	-	-	-	-	-	-
Shinele .....	535	95.54	25	4.46	-	-	-	-	-	-	-	-
Erer .....	1,609	76.11	491	23.23	14	0.66	-	-	-	-	-	-
Jijiga Zone .....	52,672	76.55	14,921	21.69	923	1.34	198	0.29	91	0.13	-	-
Jijiga .....	28,175	78.57	7,488	20.88	151	0.42	48	0.13	-	-	-	-
Teferi Ber .....	10,451	57.75	6,633	36.65	772	4.27	149	0.82	91	0.50	-	-

Kebri Beyah .....	14,047	94.61	800	5.39	-	-	-	-	-	-	-
Liben Zone .....	17,818	99.48	68	0.38	19	0.11	6	0.03	-	-	-
Filtu .....	4,657	100.00	-	-	-	-	-	-	-	-	-
Dolo Odo .....	5,232	100.00	-	-	-	-	-	-	-	-	-
Moyale .....	7,929	98.84	68	0.85	19	0.24	6	0.07	-	-	-

Table 8.19B:- Number of Crop Holders that Owned Cart by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Cart		One Cart		Two Carts		Three Carts		Four Carts		Five and above Carts	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	88,779	99.32	568	0.64	30	0.03	-	-	12	0.01	-	-
Shinele Zone .....	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Shinele .....	560	100.00	-	-	-	-	-	-	-	-	-	-
Erer .....	2,114	100.00	-	-	-	-	-	-	-	-	-	-
Jijiga Zone .....	68,584	99.68	221	0.32	-	-	-	-	-	-	-	-
Jijiga .....	35,862	100.00	-	-	-	-	-	-	-	-	-	-
Teferi Ber .....	18,096	100.00	-	-	-	-	-	-	-	-	-	-
Kebri Beyah .....	14,626	98.51	221	1.49	-	-	-	-	-	-	-	-
Liben Zone .....	17,522	97.83	347	1.94	30	0.17	-	-	12	0.07	-	-
Filtu .....	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo .....	4,861	92.91	340	6.50	19	0.36	-	-	12	0.23	-	-
Moyale .....	8,004	99.78	7	0.09	11	0.14	-	-	-	-	-	-

Table 8.20B:- Number of Crop Holders that Owned Sprayer (hand operated) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Sprayer		One Sprayer		Two Sprayers		Three Sprayers		Four Sprayers		Five and above Sprayers	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	89,093	99.67	239	0.27	57	0.06	-	-	-	-	-	-
Shinele Zone .....	2,661	99.51	13	0.49	-	-	-	-	-	-	-	-
Shinele .....	547	97.68	13	2.32	-	-	-	-	-	-	-	-
Erer .....	2,114	100.00	-	-	-	-	-	-	-	-	-	-
Jijiga Zone .....	68,626	99.74	122	0.18	57	0.08	-	-	-	-	-	-
Jijiga .....	35,832	99.92	30	0.08	-	-	-	-	-	-	-	-
Teferi Ber .....	17,999	99.46	40	0.22	57	0.31	-	-	-	-	-	-
Kebri Beyah .....	14,795	99.65	52	0.35	-	-	-	-	-	-	-	-
Liben Zone .....	17,807	99.42	104	0.58	-	-	-	-	-	-	-	-
Filtu .....	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo .....	5,232	100.00	-	-	-	-	-	-	-	-	-	-
Moyale .....	7,918	98.70	104	1.30	-	-	-	-	-	-	-	-

Table 8.21B:- Number of Crop Holders that Owned Wheelbarrow by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Wheelbarrow		One Wheelbarrow		Two Wheelbarrows		Three Wheelbarrows		Four Wheelbarrows		Five and above Wheelbarrows	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	87,857	98.29	1,403	1.57	103	0.12	26	0.03	-	-	-	-
Shinele Zone .....	2,638	98.65	36	1.35	-	-	-	-	-	-	-	-
Shinele .....	560	100.00	-	-	-	-	-	-	-	-	-	-
Erer .....	2,078	98.30	36	1.70	-	-	-	-	-	-	-	-
Jijiga Zone .....	67,599	98.25	1,084	1.58	96	0.14	26	0.04	-	-	-	-
Jijiga .....	35,676	99.48	186	0.52	-	-	-	-	-	-	-	-
Teferi Ber .....	17,983	99.38	88	0.49	25	0.14	-	-	-	-	-	-

Kebri Beyah .....	13,940	93.89	810	5.46	71	0.48	26	0.18	-	-	-	-
Liben Zone.....	17,620	98.38	283	1.58	8	0.04	-	-	-	-	-	-
Filtu.....	4,642	99.68	15	0.32	-	-	-	-	-	-	-	-
Dolo Odo .....	5,224	99.85	-	-	8	0.15	-	-	-	-	-	-
Moyale .....	7,754	96.66	268	3.34	-	-	-	-	-	-	-	-

Table 8.22B:- Number of Crop Holders that Owned Ass (Specifically for ploughing) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Ass		One Ass		Two Asses		Three Asses		Four Asses		Five and above Asses	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	88,732	99.27	481	0.54	172	0.19	-	-	4	0.00	-	-
Shinele Zone.....	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Shinele .....	560	100.00	-	-	-	-	-	-	-	-	-	-
Erer .....	2,114	100.00	-	-	-	-	-	-	-	-	-	-
Jijiga Zone .....	68,170	99.08	481	0.70	154	0.22	-	-	-	-	-	-
Jijiga.....	35,748	99.68	45	0.13	69	0.19	-	-	-	-	-	-
Teferi Ber.....	17,725	97.95	330	1.82	41	0.23	-	-	-	-	-	-
Kebri Beyah.....	14,698	99.00	106	0.71	43	0.29	-	-	-	-	-	-
Liben Zone.....	17,888	99.87	-	-	19	0.11	-	-	4	0.02	-	-
Filtu.....	4,649	99.83	-	-	4	0.09	-	-	4	0.09	-	-
Dolo Odo .....	5,218	99.73	-	-	14	0.27	-	-	-	-	-	-
Moyale .....	8,022	100.00	-	-	-	-	-	-	-	-	-	-

Table 8.23B:- Number of Crop Holders that Owned Camel (Specifically for ploughing) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Camel		One Camel		Two Camels		Three Camels		Four Camels		Five and above Camels	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	88,870	99.42	409	0.46	110	0.12	-	-	-	-	-	-
Shinele Zone.....	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Shinele .....	560	100.00	-	-	-	-	-	-	-	-	-	-
Erer .....	2,114	100.00	-	-	-	-	-	-	-	-	-	-
Jijiga Zone .....	68,286	99.25	409	0.59	110	0.16	-	-	-	-	-	-
Jijiga.....	35,862	100.00	-	-	-	-	-	-	-	-	-	-
Teferi Ber.....	17,594	97.23	392	2.17	110	0.61	-	-	-	-	-	-
Kebri Beyah.....	14,830	99.89	17	0.11	-	-	-	-	-	-	-	-
Liben Zone.....	17,911	100.00	-	-	-	-	-	-	-	-	-	-
Filtu.....	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo .....	5,232	100.00	-	-	-	-	-	-	-	-	-	-
Moyale .....	8,022	100.00	-	-	-	-	-	-	-	-	-	-

Table 8.24B:- Number of Crop Holders that Owned Ox (Specifically for ploughing) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Ox		One Ox		Two Oxen		Three Oxen		Four Oxen		Five and above Oxen	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region.....	37,113	41.52	16,352	18.29	33,340	37.30	1,844	2.06	643	0.72	97	0.11
Shinele Zone .....	1,682	62.90	530	19.82	454	16.98	8	0.30	-	-	-	-
Shinele.....	486	86.79	35	6.25	39	6.96	-	-	-	-	-	-
Erer.....	1,195	56.53	495	23.42	416	19.68	8	0.38	-	-	-	-
Jijiga Zone.....	22,344	32.47	15,428	22.42	28,857	41.94	1,665	2.42	446	0.65	65	0.09
Jijiga.....	13,727	38.28	7,701	21.47	13,496	37.63	754	2.10	136	0.38	48	0.13
Teferi Ber.....	5,980	33.05	5,427	29.99	6,537	36.12	110	0.61	25	0.14	17	0.09

Kebri Beyah .....	2,636	17.75	2,300	15.49	8,825	59.44	801	5.40	285	1.92	-	-
Liben Zone.....	13,088	73.07	394	2.20	4,029	22.49	171	0.95	197	1.10	32	0.18
Filtu .....	2,707	58.13	141	3.03	1,597	34.29	120	2.58	88	1.89	4	0.09
Dolo Odo.....	4,380	83.72	-	-	832	15.90	-	-	20	0.38	-	-
Moyale .....	6,002	74.82	253	3.15	1,600	19.95	51	0.64	89	1.11	27	0.34

Table 8.25B:- Number of Crop Holders that Owned Ass (For threshing or transportation) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Ass		One Ass		Two Asses		Three Asses		Four Asses		Five and above Asses	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	51,895	58.06	30,108	33.68	6,619	7.40	580	0.65	172	0.19	15	0.02
Shinele Zone.....	2,027	75.80	546	20.42	101	3.78	-	-	-	-	-	-
Shinele .....	431	76.96	102	18.21	27	4.82	-	-	-	-	-	-
Erer .....	1,596	75.50	444	21.00	74	3.50	-	-	-	-	-	-
Jijiga Zone .....	38,682	56.22	24,491	35.59	5,165	7.51	362	0.53	105	0.15	-	-
Jijiga.....	16,796	46.84	15,381	42.89	3,389	9.45	227	0.63	69	0.19	-	-
Teferi Ber.....	9,752	53.89	6,999	38.68	1,275	7.05	70	0.39	-	-	-	-
Kebri Beyah.....	12,137	81.75	2,110	14.21	500	3.37	65	0.44	35	0.24	-	-
Liben Zone.....	11,186	62.45	5,072	28.32	1,353	7.55	218	1.22	67	0.37	15	0.08
Filtu .....	2,722	58.45	1,314	28.22	463	9.94	110	2.36	48	1.03	-	-
Dolo Odo .....	2,513	48.03	2,058	39.33	551	10.53	106	2.03	4	0.08	-	-
Moyale .....	5,952	74.20	1,700	21.19	338	4.21	2	0.02	15	0.19	15	0.19

Table 8.26B:- Number of Crop Holders that Owned Camel (For threshing or transportation) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Camel		One Camel		Two Camels		Three Camels		Four Camels		Five and above Camels	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	78,025	87.29	8,262	9.24	2,227	2.49	392	0.44	314	0.35	169	0.19
Shinele Zone.....	2,509	93.83	68	2.54	93	3.48	-	-	-	-	4	0.15
Shinele .....	541	96.61	13	2.32	6	1.07	-	-	-	-	-	-
Erer .....	1,969	93.14	55	2.60	86	4.07	-	-	-	-	4	0.19
Jijiga Zone .....	60,692	88.21	6,722	9.77	1,019	1.48	143	0.21	163	0.24	66	0.10
Jijiga.....	35,079	97.82	711	1.98	32	0.09	-	-	-	-	40	0.11
Teferi Ber.....	15,400	85.10	1,968	10.88	473	2.61	85	0.47	144	0.80	26	0.14
Kebri Beyah.....	10,214	68.80	4,042	27.22	514	3.46	58	0.39	19	0.13	-	-
Liben Zone.....	14,824	82.76	1,473	8.22	1,115	6.23	249	1.39	151	0.84	99	0.55
Filtu .....	2,853	61.26	1,002	21.52	569	12.22	148	3.18	72	1.55	13	0.28
Dolo Odo .....	4,956	94.72	184	3.52	54	1.03	7	0.13	31	0.59	-	-
Moyale .....	7,016	87.46	287	3.58	492	6.13	94	1.17	48	0.60	85	1.06

Table 8.27B:- Number of Crop Holders that Owned Cattle (For threshing or transportation) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Cattle		One Cattle		Two Cattle		Three Cattle		Four Cattle		Five and above Cattle	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region .....	40,203	44.98	14,160	15.84	27,052	30.26	4,342	4.86	2,134	2.39	1,498	1.68
Shinele Zone.....	1,658	62.00	542	20.27	448	16.75	26	0.97	-	-	-	-
Shinele .....	476	85.00	35	6.25	49	8.75	-	-	-	-	-	-
Erer .....	1,183	55.96	507	23.98	398	18.83	26	1.23	-	-	-	-
Jijiga Zone .....	24,225	35.21	13,215	19.21	23,883	34.71	4,163	6.05	1,906	2.77	1,413	2.05
Jijiga.....	15,676	43.71	7,511	20.94	11,187	31.19	1,098	3.06	246	0.69	144	0.40
Teferi Ber.....	6,213	34.33	3,616	19.98	4,832	26.70	1,597	8.83	819	4.53	1,019	5.63





Kebri Beyah .....	14,847	100.00	-	-	-	-	-	-	-	-	-
Liben Zone .....	12,711	70.97	4,744	26.49	437	2.44	19	0.11	-	-	-
Filtu .....	2,811	60.36	1,646	35.34	181	3.89	19	0.41	-	-	-
Dolo Odo .....	4,376	83.64	834	15.94	22	0.42	-	-	-	-	-
Moyale .....	5,523	68.85	2,264	28.22	235	2.93	-	-	-	-	-

Table 8.31B:- Number of Crop Holders that Owned Local Storage 'Gudguad' by Geographic area.

[illegible]

Table 8.32B:- Number of Crop Holders that Owned Modern Storage by Geographic area.

[illegible]

ANNEX TABLES PRESENTING  
ESTIMATES, STANDARD ERRORS AND  
COEFFICIENT OF VARIATION  
FOR SELECTED FARM IMPLEMENT VARIABLES

Annex Tables 8.1-8.4

**ANNEX TABLE 8.1:- Standard Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Regional**

Implements, Equipment, Farm animals and Storage facilities	Number of Holders			Number of Implements, Equipment, Farm animals and Storages			Total Value		
	Reporting	S.E	C.V	Reported	S.E	C.V	(Birr)	S.E	C.V
Used for Clearing Land									
Axes .....	74,636	2,646.93	3.55	102,532	4,487.82	4.38	1,324,660	7,402,330.75	5.59
'Gejeras' .....	13,335	1,573.49	11.80	15,885	1,915.24	12.06	224,903	2,968,834.72	13.20
Shovels .....	57,857	2,574.12	4.45	77,555	4,268.95	5.50	1,206,593	7,316,937.76	6.06
Used for Cultivation									
Hoes .....	40,062	2,535.19	6.33	48,675	3,253.99	6.69	882,962	6,858,473.98	7.77
'Mekeskeshas' .....	6,227	1,321.49	21.22	6,946	1,418.09	20.42	45,867	809,512.85	17.65
Pick Axes.....	17,962	1,877.15	10.45	22,955	2,612.39	11.38	340,671	3,325,800.16	9.76
Tractors.....	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
'Degers' .....	58,136	2,620.99	4.51	87,687	4,733.84	5.40	569,588	4,191,993.54	7.36
'Erfes' (Handle) .....	56,807	2,696.13	4.75	66,118	4,189.57	6.34	432,066	3,218,188.74	7.45
Plough-Beams. ....	59,313	2,605.90	4.39	61,947	2,667.61	4.31	1,508,907	11,970,065.66	7.93
Plough -Tips (Metal) .....	58,508	2,574.38	4.40	62,867	2,750.79	4.38	1,466,256	7,257,463.26	4.95
'Wegel' -Tips.....	57,198	2,626.70	4.59	70,981	4,173.66	5.88	546,422	3,555,653.19	6.51
Yokes.....	59,604	2,590.42	4.35	63,109	2,805.66	4.45	1,153,825	7,355,236.42	6.37
Used for Harvesting									
Sickles.....	59,095	3,183.88	5.39	81,139	5,181.36	6.39	1,092,145	8,484,450.28	7.77
Used for Threshing									
Hay-Forks (Metal) .....	680	191.75	28.21	731	204.82	28.02	8,890	284,001.13	31.95
Hay-Forks (Wood) .....	29,563	2,768.39	9.36	33,306	3,224.30	9.68	340,297	5,772,409.16	16.96
Threshing Sticks .....	41,576	3,268.11	7.86	89,151	10,151.14	11.39	386,633	4,916,285.34	12.72
Winnowers (Metal) .....	197	90.08	45.68	197	90.08	45.68	*	*	*
Winnowers (Wood) .....	16,756	2,263.53	13.51	18,393	2,619.67	14.24	218,041	3,797,930.19	17.42
Other Farm Equipment									
Carts (Hauling) .....	609	105.65	17.34	674	107.36	15.93	650,286	10,431,654.27	16.04
Sprayers (Hand Operated) ..	296	93.49	31.58	353	130.17	36.88	*	*	*
Sprayers (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tools .....	-	-	-	-	-	-	-	-	-
Wheelbarrows.....	1,532	400.61	26.15	1,687	431.87	25.61	363,920	9,577,175.90	26.32
Animals Used for Ploughing									
Asses.....	657	171.15	26.05	842	226.77	26.94	358,052	8,751,203.90	24.44
Camels .....	518	229.59	44.30	628	284.36	45.30	618,116	26,554,967.91	42.96
Horses .....	-	-	-	-	-	-	-	-	-
Mules .....	-	-	-	-	-	-	-	-	-
Oxen .....	52,276	2,523.34	4.83	92,340	5,008.02	5.42	61,276,704	340,781,057.44	5.56
AnimalsUsed for Threshing									
Asses.....	37,495	2,554.52	6.81	45,928	3,266.99	7.11	12,547,418	84,248,638.08	6.71
Camels .....	11,365	1,081.19	9.51	16,091	1,542.97	9.59	17,232,801	179,027,202.89	10.39
Cattle.....	49,186	2,710.38	5.51	99,077	6,889.01	6.95	64,826,868	420,535,777.93	6.49
Horses .....	-	-	-	-	-	-	-	-	-
Mules .....	94	40.71	43.10	*	*	*	*	*	*
Storage Structure									
'Debignits' .....	425	149.12	35.12	425	149.12	35.12	19,158	635,531.70	33.17



'Dibignits' .....	52	19.22	36.75	52	19.22	36.75	1,435	53,573.13	37.34
'Gotteras' .....	36	15.85	44.29	36	15.85	44.29	775	35,252.36	45.46
'Gudguads' .....	639	37.86	5.93	639	37.86	5.93	27,126	185,537.73	6.84
Modern Storages .....	-	-	-	-	-	-	-	-	-

ANNEX TABLE 8.3:- Standard Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Jijiga Zone.

Implements, Equipment, Farm animals and Storage facilities	Number of Holders			Number of Implements, Equipment, Farm animals and Storages			Total Value		
	Reporting	S.E	C.V	Reported	S.E	C.V	(Birr)	S.E	C.V
Used for Clearing Land									
Axes .....	58,309	2,465.64	4.23	75,105	3,399.60	4.53	898,591	4,613,995.03	5.13
'Gejeras' .....	7,849	1,503.34	19.15	9,068	1,828.47	20.16	130,604	2,796,471.67	21.41
Shovels .....	49,535	2,502.13	5.05	65,705	4,198.07	6.39	1,023,757	7,127,098.29	6.96
Used for Cultivation									
Hoes .....	35,216	2,489.34	7.07	41,329	3,150.20	7.62	769,210	6,686,636.41	8.69
'Mekeskeshas' .....	5,362	1,304.54	24.33	5,773	1,386.87	24.02	34,657	759,821.20	21.92
Pick Axes.....	12,451	1,820.19	14.62	15,251	2,522.13	16.54	207,104	3,012,654.20	14.55
Tractors.....	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
'Degers' .....	51,359	2,577.44	5.02	76,905	4,649.53	6.05	506,396	4,132,104.44	8.16
'Erfes' (Handle) .....	49,902	2,655.30	5.32	57,803	4,142.49	7.17	403,095	3,202,677.28	7.95
Plough-Beams. ....	52,132	2,562.72	4.92	54,022	2,610.67	4.83	1,395,185	11,935,269.00	8.55
Plough -Tips (Metal) .....	51,178	2,526.79	4.94	54,442	2,675.99	4.92	1,174,291	6,987,662.56	5.95
'Wegel' -Tips.....	50,122	2,582.77	5.15	62,927	4,130.81	6.56	467,369	3,502,203.60	7.49
Yokes.....	52,409	2,546.92	4.86	55,142	2,752.35	4.99	1,058,645	7,311,890.81	6.91
Used for Harvesting									
Sickles.....	54,236	3,140.45	5.79	75,045	5,141.21	6.85	1,035,214	8,456,240.55	8.17
Used for Threshing									
Hay-Forks (Metal) .....	597	190.50	31.90	648	203.65	31.41	7,761	281,574.57	36.28
Hay-Forks (Wood) .....	28,770	2,766.88	9.62	32,415	3,222.30	9.94	335,595	5,772,057.18	17.20
Threshing Sticks .....	36,469	3,233.19	8.87	78,189	10,067.52	12.88	349,374	4,907,581.86	14.05
Winnowers (Metal) .....	*	*	*	*	*	*	*	*	*
Winnowers (Wood) .....	16,133	2,262.34	14.02	17,725	2,618.26	14.77	213,322	3,797,316.80	17.80
Other Farm Equipment									
Carts (Hauling) .....	221	104.88	47.46	221	104.88	47.46	*	*	*
Sprayers (Hand Operated)...	179	79.40	44.47	*	*	*	*	*	*
Sprayers (Power Operated) .	-	-	-	-	-	-	-	-	-
Tying Tools .....	-	-	-	-	-	-	-	-	-
Wheelbarrows.....	1,205	389.90	32.35	1,352	421.96	31.20	297,555	9,202,519.56	30.93
Animals Used for Ploughing									
Asses.....	634	171.04	26.96	788	226.00	28.68	328,394	8,700,923.28	26.50
Camels .....	518	229.59	44.30	628	284.36	45.30	618,116	26,554,967.91	42.96
Horses .....	-	-	-	-	-	-	-	-	-
Mules .....	-	-	-	-	-	-	-	-	-
Oxen .....	46,462	2,485.90	5.35	80,936	4,929.13	6.09	54,168,330	335,922,106.59	6.20
AnimalsUsed for Threshing									
Asses.....	30,123	2,512.76	8.34	36,327	3,187.20	8.77	8,893,951	78,906,929.56	8.87
Camels .....	8,113	1,024.93	12.63	10,172	1,379.07	13.56	12,255,092	169,145,205.83	13.80
Cattle.....	44,580	2,683.01	6.02	89,777	6,828.04	7.61	58,930,693	416,471,606.51	7.07
Horses .....	-	-	-	-	-	-	-	-	-
Mules .....	*	*	*	*	*	*	*	*	*
Storage Structure									
'Dibignits' .....	357	147.63	41.35	357	147.63	41.35	16,960	632,402.63	37.29



'Dibignits' .....	*	*	*	*	*	*	763	33,126.82	43.44
'Gotteras' .....	5,200	537.23	10.33	5,676	602.30	10.61	924,772	11,748,731.02	12.70
'Gudguads' .....	177	44.05	24.91	264	51.19	19.42	23,854	292,732.46	12.27
Modern Storages .....	5	*	*	5	-	-	182	-	-