

## **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 Dubti, Asayita, and Afambo weredas of zone 1 and Amibara, Awash

Fentale and Argoba Liyu of zone 3 are also given as Table series 8.1A - 8.28A and 8.1B - 8.28B. 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) Winnowing (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 Dubti, Asayita, and Afambo weredas of zone 1 and Amibara, Awash Fentale and Argoba Liyu of zone 3. 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 shovel, while 'Gejera'(Chopper) was the lowest. In Afar Region (only in zone 1 and zone 3) it is estimated that there were about 13,970 crop holders in rural areas of which about 9,359 (66.99%) reported to own axes, about 58.48% reporting shovel, and 28.59% 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, 'Gejera' and shovel was estimated to be 7 years each.

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 pick-axe was the highest in terms of number of holders reporting, total number of implements reported and total value. The second highest was hoe while 'Mekeskesha' was the lowest. 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 pick-axes was 16.83%, 7.6%, 2.38%, 1.6% and 0.58% 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 domestic 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 7 million Birr. About 5 thousand holders (35.83% of the total crop holders in zone1 and zone 3) reported 12,380 cattle (working age cattle) used for threshing and these cattle had a value of 8.2 million Birr and the average replacement value of a working age cattle was about 289.19 Birr. It was also indicated that asses and horses 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 Afar region the agricultural census result shows that there were about 13,970 crop holders in rural areas. Among these 9.38%, 23.10%, 1.96%, 1.74%, and 0.13% holders owned one, two, three, four, and five and above oxen. On the other hand about 63.69% of the crop 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 not more than 12% of the total crop holders reported to own 'Gudguad' and 'Gottera'. The total value of all reported storage facilities was assessed to be 114,182 Birr, of which 71.15% and 26.59% 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 <sup>1</sup> Per Holder |                                    |   |   |
| Used for Clearing Land         |                             |                          |                                    |                                 |                                    |   |   |
| Axes .....                     | 9,359                       | 66.99                    | 17,580                             | 1.26                            | 161,295                            | 6.18  | 7   |
| 'Gejeras' (Choppers).....      | 3,994                       | 28.59                    | 5,098                              | 0.36                            | 102,017                            | 15.59   | 7   |
| Shovels.....                   | 8,170                       | 58.48                    | 10,732                             | 0.77                            | 153,788                            | 11.07   | 7   |
| Used for Cultivation           |                             |                          |                                    |                                 |                                    |   |   |
| Hoes .....                     | 865                         | 6.19                     | 979                                | 0.07                            | 17,087                             | 14.58   | 10  |
| 'Mekeskeshas'.....             | 707                         | 5.06                     | 814                                | 0.06                            | 11,904                             | 12.93   | 7   |
| Pick-Axes.....                 | 4,051                       | 29.00                    | 7,276                              | 0.52                            | 71,116                             | 5.44  | 6   |
| Tractor .....                  | -                           | -                        | -                                  | -                               | -                                  | -   | -   |
| Parts for traditional Plough   |                             |                          |                                    |                                 |                                    |   |   |
| 'Degers'.....                  | 5,956                       | 42.63                    | 8,950                              | 0.64                            | 35,088                             | 2.73  | 2   |
| 'Erfes'.....                   | 5,855                       | 41.91                    | 7,851                              | 0.56                            | 22,703                             | 2.17  | 1   |
| Plough - Beams.....            | 6,088                       | 43.58                    | 7,406                              | 0.53                            | 86,123                             | 9.75  | 4   |
| Plough - Tips.....             | 6,086                       | 43.56                    | 7,212                              | 0.52                            | 138,155                            | 16.14   | 5   |
| 'Wegel'- Tips .....            | 6,033                       | 43.19                    | 7,179                              | 0.51                            | 58,181                             | 6.97  | 5   |
| Yokes .....                    | 6,098                       | 43.65                    | 7,124                              | 0.51                            | 67,157                             | 7.94  | 4   |
| Used for Harvesting            |                             |                          |                                    |                                 |                                    |   |   |
| Sickles .....                  | 8,825                       | 63.17                    | 14,511                             | 1.04                            | 120,498                            | 5.40  | 5   |
| Used for Threshing             |                             |                          |                                    |                                 |                                    |   |   |
| Hay-Forks (metal).....         | *                           | -                        | *                                  | -                               | *                                  | *   | *   |
| Hay-Forks (wood).....          | 846                         | 6.06                     | 1,271                              | 0.09                            | 2,916                              | 1.52  | 4   |
| Threshing Sticks .....         | 164                         | 1.17                     | 425                                | 0.03                            | 343                                | 0.44  | 1   |
| Winnowers (metal) .....        | -                           | -                        | -                                  | -                               | -                                  | -   | -   |
| Winnowers (wood) .....         | 687                         | 4.92                     | 774                                | 0.06                            | 6,327                              | 7.03  | 10  |
| Other farm Equipment           |                             |                          |                                    |                                 |                                    |   |   |
| Carts .....                    | 69                          | 0.49                     | 89                                 | 0.01                            | 101,010                            | 775.91  | 7   |
| Sprayers (Hand operated) ..... | 156                         | 1.12                     | 198                                | 0.01                            | 67,961                             | 254.59  | 4   |
| Sprayers (Power operated) ..   | -                           | -                        | -                                  | -                               | -                                  | -   | -   |
| Tying Tools.....               | -                           | -                        | -                                  | -                               | -                                  | -   | -   |
| Wheelbarrows .....             | 66                          | 0.47                     | 79                                 | 0.01                            | *                                  | *   | 6   |

- Average<sup>1</sup> 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.**

| 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 <sup>1</sup> Per Holder |                               |   |                               |
| Used for Ploughing                   |                             |                          |                   |                                 |                               |   |                               |
| Asses .....                          | *                           | -                        | *                 | -                               | *                             | *   | *                             |
| Camels.....                          | -                           | -                        | -                 | -                               | -                             | -   | -                             |
| Horses .....                         | -                           | -                        | -                 | -                               | -                             | -   | -                             |
| Mules.....                           | -                           | -                        | -                 | -                               | -                             | -   | -                             |
| Oxen .....                           | 5,073                       | 36.31                    | 9,661             | 0.69                            | 7,159,864                     | 390.26                                      | 8                             |
| Used for Threshing or Transportation |                             |                          |                   |                                 |                               |   |                               |
| Asses .....                          | 2,012                       | 14.40                    | 2,971             | 0.21                            | 723,821                       | 162.99                                      | 7                             |
| Camels.....                          | 2,390                       | 17.11                    | 3,383             | 0.24                            | 3,354,950                     | 780.54                                      | 13                            |
| Cattle .....                         | 5,006                       | 35.83                    | 12,380            | 0.89                            | 8,270,657                     | 289.19                                      | 8                             |
| Horses .....                         | 20                          | 0.14                     | 33                | 0.00                            | 18,487                        | 309.27                                      | 8                             |
| Mules.....                           | 127                         | 0.91                     | 167               | 0.01                            | 238,053                       | 934.51                                      | 11                            |

- Average<sup>1</sup> 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 <sup>1</sup> Per Holder |                                |  |  |
| 'Debignits' .....             | 676                         | 4.84                             | 1,165              | 0.08                            | 2,574                          | 1.25   | 2  |
| 'Gotteras' .....              | 1,658                       | 11.87                            | 2,860              | 0.20                            | 30,365                         | 6.75   | 7  |
| 'Gudguads' .....              | 1,759                       | 12.59                            | 2,017              | 0.14                            | 81,243                         | 36.16  | 18   |
| Modern Storage Structures.... | -                           | -                                | -                  | -                               | -                              | -  | -  |

- Average<sup>1</sup> 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 Implements, Equipment and Draught Animals.

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STATISTICAL TABLES PRESENTING THE CENSUS  
RESULTS AT  
ZONAL AND WOREDA LEVELS

Tables 8.1A- 8.28A

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) |
|---------------------|------------------------------|-----------------------------|-------------------------|---------------------------|--------------------|--|--|
| Afar Region .....   | 13,970                       | 9,359                       | 17,580                  | 1.26                      | 161,295            | 6.18                                     | 7  |
| Zone 1 .....        | 8,205                        | 5,642                       | 10,133                  | 1.23                      | 98,470             | 7.11                                     | 7  |
| Dubti .....         | 1,486                        | 948                         | 1,243                   | 0.84                      | 14,844             | 9.15                                     | 6  |
| Asayita .....       | 4,228                        | 3,053                       | 4,320                   | 1.02                      | 47,509             | 7.79                                     | 7  |
| Afambo .....        | 2,491                        | 1,640                       | *                       | -                         | 36,117             | *  | 7  |
| Zone 3 .....        | 5,765                        | 3,717                       | 7,447                   | 1.29                      | 62,825             | 4.93                                     | 8  |
| Amibara .....       | 1,771                        | 442                         | 638                     | 0.36                      | 14,826             | 16.21                                    | 8  |
| Awash Fentale ..... | 1,413                        | 851                         | 1,097                   | 0.78                      | 18,143             | 12.49                                    | 10   |
| Argoba Liyu .....   | 2,582                        | 2,423                       | 5,713                   | 2.21                      | 29,855             | 2.22                                     | 7  |

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) |
|---------------------|------------------------------|-----------------------------|------------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 3,994                       | 5,098                        | 0.36                      | 102,017            | 15.59   | 7   |
| Zone 1 .....        | 8,205                        | 2,081                       | 2,513                        | 0.31                      | 53,124             | 17.13   | 7   |
| Dubti .....         | 1,486                        | 298                         | 318                          | 0.21                      | 7,930              | 23.35   | 6   |
| Asayita .....       | 4,228                        | 1,484                       | 1,875                        | 0.44                      | 38,309             | 15.60   | 7   |
| Afambo .....        | 2,491                        | 299                         | 320                          | 0.13                      | 6,886              | 19.92   | 7   |
| Zone 3 .....        | 5,765                        | 1,912                       | 2,585                        | 0.45                      | 48,893             | 14.09   | 7   |
| Amibara .....       | 1,771                        | 1,064                       | 1,616                        | 0.91                      | 26,243             | 10.27   | 5   |
| Awash Fentale ..... | 1,413                        | 807                         | 928                          | 0.66                      | 22,077             | 20.77   | 10  |
| Argoba Liyu .....   | 2,582                        | 41                          | 41                           | 0.02                      | 573                | 13.97   | 8   |

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) |
|---------------------|------------------------------|-----------------------------|----------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 8,170                       | 10,732                     | 0.77                      | 153,788            | 11.07                                       | 7   |
| Zone 1 .....        | 8,205                        | 5,486                       | 7,346                      | 0.90                      | 97,869             | 10.12                                       | 6   |
| Dubti .....         | 1,486                        | 802                         | 1,229                      | 0.83                      | 17,723             | 9.17  | 5   |
| Asayita .....       | 4,228                        | 3,139                       | 4,387                      | 1.04                      | 56,841             | 9.59  | 6   |
| Afambo .....        | 2,491                        | 1,544                       | 1,730                      | 0.69                      | 23,305             | 12.13                                       | 5   |
| Zone 3 .....        | 5,765                        | 2,684                       | 3,386                      | 0.59                      | 55,919             | 13.13                                       | 9   |
| Amibara .....       | 1,771                        | 1,335                       | 1,844                      | 1.04                      | 33,352             | 13.63                                       | 7   |
| Awash Fentale ..... | 1,413                        | 539                         | 626                        | 0.44                      | 14,516             | 19.50                                       | 11  |
| Argoba Liyu .....   | 2,582                        | 809                         | 917                        | 0.36                      | 8,050              | 7.77  | 9   |

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) |
|---------------------|------------------------------|-----------------------------|-------------------------|---------------------------|--------------------|--|--|
| Afar Region .....   | 13,970                       | 865                         | 979                     | 0.07                      | 17,087             | 14.58                                    | 10   |
| Zone 1 .....        | 8,205                        | 782                         | 896                     | 0.11                      | 14,435             | 12.98                                    | 9  |
| Dubti .....         | 1,486                        | *                           | *                       | -                         | *                  | *  | *  |
| Asayita .....       | 4,228                        | 554                         | 653                     | 0.15                      | 11,138             | 13.27                                    | 9  |
| Afambo .....        | 2,491                        | 209                         | 223                     | 0.09                      | 3,022              | 12.04                                    | 8  |
| Zone 3 .....        | 5,765                        | 83                          | 83                      | 0.01                      | 2,652              | 31.96                                    | 15   |
| Amibara .....       | 1,771                        | 37                          | 37                      | 0.02                      | 715                | 19.33                                    | 6  |
| Awash Fentale ..... | 1,413                        | 15                          | 15                      | 0.01                      | 382                | 25.45                                    | 12   |
| Argoba Liyu .....   | 2,582                        | 30                          | 30                      | 0.01                      | 1,556              | 51.85                                    | 27   |

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) |
|---------------------|------------------------------|-----------------------------|----------------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 707                         | 814                              | 0.06                      | 11,904             | 12.93   | 7   |
| Zone 1 .....        | 8,205                        | 667                         | 762                              | 0.09                      | 10,941             | 12.80   | 6   |
| Dubti .....         | 1,486                        | -                           | -                                | -                         | -                  | -   | -   |
| Asayita .....       | 4,228                        | 598                         | 693                              | 0.16                      | 9,912              | 12.59   | 6   |
| Afambo .....        | 2,491                        | 68                          | 68                               | 0.03                      | *                  | *   | *   |
| Zone 3 .....        | 5,765                        | 40                          | 53                               | 0.01                      | 963                | 14.55   | 14  |
| Amibara .....       | 1,771                        | 3                           | 3                                | 0.00                      | -                  | -   | -   |
| Awash Fentale ..... | 1,413                        | 13                          | 25                               | 0.02                      | 382                | 7.64  | 10  |
| Argoba Liyu .....   | 2,582                        | 24                          | 24                               | 0.01                      | 580                | 24.18   | 17  |

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) |
|---------------------|------------------------------|-----------------------------|------------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 4,051                       | 7,276                        | 0.52                      | 71,116             | 5.44  | 6   |
| Zone 1 .....        | 8,205                        | 1,816                       | 3,290                        | 0.40                      | 40,069             | 6.90  | 7   |
| Dubti .....         | 1,486                        | *                           | *                            | -                         | *                  | *   | *   |
| Asayita .....       | 4,228                        | 1,563                       | 3,003                        | 0.71                      | 36,995             | 6.67  | 6   |
| Afambo .....        | 2,491                        | 238                         | 262                          | 0.11                      | 2,602              | 9.09  | 10  |
| Zone 3 .....        | 5,765                        | 2,234                       | 3,985                        | 0.69                      | 31,047             | 4.23  | 6   |
| Amibara .....       | 1,771                        | 121                         | 700                          | 0.40                      | 8,834              | 2.63  | 8   |
| Awash Fentale ..... | 1,413                        | 143                         | 196                          | 0.14                      | 2,317              | 8.12  | 9   |
| Argoba Liyu .....   | 2,582                        | 1,971                       | 3,089                        | 1.20                      | 19,895             | 4.35  | 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) |
|---------------------|------------------------------|-----------------------------|-----------------------------|---------------------------|--------------------|--|--|
| Afar Region .....   | 13,970                       | 5,956                       | 8,950                       | 0.64                      | 35,088             | 2.73   | 2  |
| Zone 1 .....        | 8,205                        | 3,634                       | 5,823                       | 0.71                      | 26,870             | 3.15   | 2  |
| Dubti .....         | 1,486                        | 135                         | 135                         | 0.09                      | 898                | 6.65   | 2  |
| Asayita .....       | 4,228                        | 1,887                       | 2,858                       | 0.68                      | 16,351             | 4.21   | 2  |
| Afambo .....        | 2,491                        | 1,611                       | 2,831                       | 1.14                      | 9,621              | 1.92   | 2  |
| Zone 3 .....        | 5,765                        | 2,323                       | 3,127                       | 0.54                      | 8,218              | 1.94   | 1  |
| Amibara .....       | 1,771                        | -                           | -                           | -                         | -                  | -  | -  |
| Awash Fentale ..... | 1,413                        | 219                         | 302                         | 0.21                      | 2,212              | 5.38   | 2  |
| Argoba Liyu .....   | 2,582                        | 2,104                       | 2,824                       | 1.09                      | 6,006              | 1.58   | 1  |

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) |
|---------------------|------------------------------|-----------------------------|-----------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 5,855                       | 7,851                       | 0.56                      | 22,703             | 2.17  | 1   |
| Zone 1 .....        | 8,205                        | 3,587                       | 4,811                       | 0.59                      | 17,455             | 2.75  | 2   |
| Dubti .....         | 1,486                        | 125                         | 131                         | 0.09                      | 454                | 3.33  | 2   |
| Asayita .....       | 4,228                        | 1,871                       | 2,209                       | 0.52                      | 9,863              | 3.75  | 2   |
| Afambo .....        | 2,491                        | 1,591                       | 2,471                       | 0.99                      | 7,137              | 1.82  | 2   |
| Zone 3 .....        | 5,765                        | 2,268                       | 3,040                       | 0.53                      | 5,248              | 1.25  | 1   |
| Amibara .....       | 1,771                        | -                           | -                           | -                         | -                  | -   | -   |
| Awash Fentale ..... | 1,413                        | 191                         | 320                         | 0.23                      | 2,045              | 4.20  | 2   |
| Argoba Liyu .....   | 2,582                        | 2,078                       | 2,721                       | 1.05                      | 3,203              | 0.90  | 1   |

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) |
|---------------------|------------------------------|-----------------------------|---------------------------------|---------------------------|--------------------|--|--|
| Afar Region .....   | 13,970                       | 6,088                       | 7,406                           | 0.53                      | 86,123             | 9.75   | 4  |
| Zone 1 .....        | 8,205                        | 3,763                       | 4,381                           | 0.53                      | 54,406             | 10.82  | 4  |
| Dubti .....         | 1,486                        | 135                         | 135                             | 0.09                      | 2,255              | 16.70  | 4  |
| Asayita .....       | 4,228                        | 1,922                       | 2,310                           | 0.55                      | 28,929             | 10.58  | 5  |
| Afambo .....        | 2,491                        | 1,706                       | 1,936                           | 0.78                      | 23,223             | 10.70  | 4  |
| Zone 3 .....        | 5,765                        | 2,325                       | 3,026                           | 0.52                      | 31,716             | 8.19   | 3  |
| Amibara .....       | 1,771                        | -                           | -                               | -                         | -                  | -  | -  |
| Awash Fentale ..... | 1,413                        | 241                         | 307                             | 0.22                      | 5,818              | 13.84  | 4  |
| Argoba Liyu .....   | 2,582                        | 2,084                       | 2,718                           | 1.05                      | 25,898             | 7.56   | 2  |

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) |
|---------------------|------------------------------|-----------------------------|--------------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 6,086                       | 7,212                          | 0.52                      | 138,155            | 16.14   | 5   |
| Zone 1 .....        | 8,205                        | 3,752                       | 4,376                          | 0.53                      | 97,253             | 18.70   | 6   |
| Dubti .....         | 1,486                        | 137                         | 142                            | 0.10                      | 3,254              | 21.93   | 5   |
| Asayita .....       | 4,228                        | 1,912                       | 2,298                          | 0.54                      | 49,247             | 17.05   | 5   |
| Afambo .....        | 2,491                        | 1,704                       | 1,936                          | 0.78                      | 44,752             | 20.42   | 7   |
| Zone 3 .....        | 5,765                        | 2,333                       | 2,837                          | 0.49                      | 40,902             | 12.19   | 4   |
| Amibara .....       | 1,771                        | -                           | -                              | -                         | -                  | -   | -   |
| Awash Fentale ..... | 1,413                        | 213                         | 249                            | 0.18                      | 5,953              | 20.81   | 5   |
| Argoba Liyu .....   | 2,582                        | 2,120                       | 2,588                          | 1.00                      | 34,949             | 11.36   | 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) |
|---------------------|------------------------------|-----------------------------|----------------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 6,033                       | 7,179                            | 0.51                      | 58,181             | 6.97  | 5   |
| Zone 1 .....        | 8,205                        | 3,718                       | 4,450                            | 0.54                      | 44,774             | 8.65  | 5   |
| Dubti .....         | 1,486                        | 138                         | 147                              | 0.10                      | 1,326              | 8.49  | 4   |
| Asayita .....       | 4,228                        | 1,897                       | 2,224                            | 0.53                      | 20,344             | 7.71  | 4   |
| Afambo .....        | 2,491                        | 1,683                       | 2,079                            | 0.83                      | 23,103             | 9.67  | 6   |
| Zone 3 .....        | 5,765                        | 2,314                       | 2,729                            | 0.47                      | 13,407             | 4.23  | 4   |
| Amibara .....       | 1,771                        | -                           | -                                | -                         | -                  | -   | -   |
| Awash Fentale ..... | 1,413                        | 213                         | 261                              | 0.18                      | 2,060              | 7.02  | 4   |
| Argoba Liyu .....   | 2,582                        | 2,101                       | 2,468                            | 0.96                      | 11,347             | 3.93  | 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) |
|---------------------|------------------------------|-----------------------------|--------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 6,098                       | 7,124                    | 0.51                      | 67,157             | 7.94                                      | 4   |
| Zone 1 .....        | 8,205                        | 3,759                       | 4,310                    | 0.53                      | 46,966             | 9.32                                      | 4   |
| Dubti .....         | 1,486                        | 135                         | 135                      | 0.09                      | 1,537              | 11.38                                     | 3   |
| Asayita .....       | 4,228                        | 1,908                       | 2,278                    | 0.54                      | 26,472             | 9.46                                      | 4   |
| Afambo .....        | 2,491                        | 1,717                       | 1,897                    | 0.76                      | 18,958             | 8.99                                      | 4   |
| Zone 3 .....        | 5,765                        | 2,339                       | 2,814                    | 0.49                      | 20,191             | 5.82                                      | 5   |
| Amibara .....       | 1,771                        | -                           | -                        | -                         | -                  | -   | -   |
| Awash Fentale ..... | 1,413                        | 241                         | 294                      | 0.21                      | 4,822              | 12.26                                     | 4   |
| Argoba Liyu .....   | 2,582                        | 2,098                       | 2,520                    | 0.98                      | 15,369             | 5.07                                      | 5   |

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) |
|---------------------|------------------------------|-----------------------------|----------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 8,825                       | 14,511                     | 1.04                      | 120,498            | 5.40  | 5   |
| Zone 1 .....        | 8,205                        | 5,198                       | 7,539                      | 0.92                      | 69,498             | 6.12  | 4   |
| Dubti .....         | 1,486                        | 606                         | 712                        | 0.48                      | 5,076              | 6.02  | 4   |
| Asayita .....       | 4,228                        | 3,174                       | 5,089                      | 1.20                      | 45,720             | 5.17  | 5   |
| Afambo .....        | 2,491                        | 1,418                       | 1,739                      | 0.70                      | 18,702             | 8.93  | 4   |
| Zone 3 .....        | 5,765                        | 3,627                       | 6,972                      | 1.21                      | 51,000             | 4.62  | 5   |
| Amibara .....       | 1,771                        | 614                         | 687                        | 0.39                      | 9,505              | 11.98                                       | 4   |
| Awash Fentale ..... | 1,413                        | 681                         | 844                        | 0.60                      | 17,680             | 16.74                                       | 5   |
| Argoba Liyu .....   | 2,582                        | 2,332                       | 5,441                      | 2.11                      | 23,815             | 1.82  | 5   |

TABLE 8.14A: - 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) |
|---------------------|------------------------------|-----------------------------|------------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 846                         | 1,271                        | 0.09                      | 2,916              | 1.52  | 4   |
| Zone 1 .....        | 8,205                        | 28                          | 37                           | 0.00                      | *                  | 0.62  | 1   |
| Dubti .....         | 1,486                        | -                           | -                            | -                         | -                  | -   | -   |
| Asayita .....       | 4,228                        | 28                          | 37                           | 0.01                      | *                  | 0.62  | 1   |
| Afambo .....        | 2,491                        | -                           | -                            | -                         | -                  | -   | -   |
| Zone 3 .....        | 5,765                        | 818                         | 1,235                        | 0.21                      | 2,875              | 1.55  | 4   |
| Amibara .....       | 1,771                        | 35                          | 35                           | 0.02                      | -                  | -   | -   |
| Awash Fentale ..... | 1,413                        | -                           | -                            | -                         | -                  | -   | -   |
| Argoba Liyu .....   | 2,582                        | 783                         | 1,199                        | 0.46                      | 2,875              | 1.59  | 4   |

TABLE 8.15A: - 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) |
|---------------------|------------------------------|-----------------------------|-------------------------------------|---------------------------|--------------------|--|--|
| Afar Region .....   | 13,970                       | 164                         | 425                                 | 0.03                      | 343                | 0.44   | 1  |
| Zone 1 .....        | 8,205                        | 99                          | 122                                 | 0.01                      | 167                | 1.07   | 1  |
| Dubti .....         | 1,486                        | *                           | *                                   | -                         | *                  | *  | *  |
| Asayita .....       | 4,228                        | 67                          | 87                                  | 0.02                      | 72                 | 0.59   | 1  |
| Afambo .....        | 2,491                        | *                           | *                                   | -                         | *                  | *  | *  |
| Zone 3 .....        | 5,765                        | 65                          | 303                                 | 0.05                      | 176                | 0.18   | 2  |
| Amibara .....       | 1,771                        | -                           | -                                   | -                         | -                  | -  | -  |
| Awash Fentale ..... | 1,413                        | -                           | -                                   | -                         | -                  | -  | -  |
| Argoba Liyu .....   | 2,582                        | 65                          | 303                                 | 0.12                      | 176                | 0.18   | 2  |



TABLE 8.16A:- Number of Holders Reporting Winnower(Wood) Owned, Quantity Reported, Replacement Value, and Duration of Service of Winnower, 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 Winnower (Birr) | Average Duration of Service of Winnower (Years) |
|---------------------|------------------------------|-----------------------------|------------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 687                         | 774                          | 0.06                      | 6,327              | 7.03  | 10  |
| Zone 1 .....        | 8,205                        | -                           | -                            | -                         | -                  | -   | -   |
| Dubti .....         | 1,486                        | -                           | -                            | -                         | -                  | -   | -   |
| Asayita .....       | 4,228                        | -                           | -                            | -                         | -                  | -   | -   |
| Afambo .....        | 2,491                        | -                           | -                            | -                         | -                  | -   | -   |
| Zone 3 .....        | 5,765                        | 687                         | 774                          | 0.13                      | 6,327              | 7.03  | 10  |
| Amibara .....       | 1,771                        | -                           | -                            | -                         | -                  | -   | -   |
| Awash Fentale ..... | 1,413                        | -                           | -                            | -                         | -                  | -   | -   |
| Argoba Liyu .....   | 2,582                        | 687                         | 774                          | 0.30                      | 6,327              | 7.03  | 10  |

TABLE 8. 17A: - 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) |
|---------------------|------------------------------|-----------------------------|--------------------------|---------------------------|--------------------|---|---|
| Afar Region .....   | 13,970                       | 69                          | 89                       | 0.01                      | 101,010            | 775.91                                    | 7   |
| Zone 1 .....        | 8,205                        | 57                          | 64                       | 0.01                      | 37,310             | 581.34                                    | 6   |
| Dubti .....         | 1,486                        | *                           | *                        | -                         | *                  | *   | *   |
| Asayita .....       | 4,228                        | 51                          | 58                       | 0.01                      | *                  | *   | 5   |
| Afambo .....        | 2,491                        | -                           | -                        | -                         | -                  | -   | -   |
| Zone 3 .....        | 5,765                        | 13                          | 25                       | 0.00                      | 63,700             | 1,274.00                                  | 8   |
| Amibara .....       | 1,771                        | -                           | -                        | -                         | -                  | -   | -   |
| Awash Fentale ..... | 1,413                        | 13                          | 25                       | 0.02                      | 63,700             | 1,274.00                                  | 8   |
| Argoba Liyu .....   | 2,582                        | -                           | -                        | -                         | -                  | -   | -   |

TABLE 8. 18A: - 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) |
|---------------------|------------------------------|-----------------------------|-----------------------------|---------------------------|--------------------|--|--|
| Afar Region .....   | 13,970                       | 156                         | 198                         | 0.01                      | 67,961             | 254.59                                       | 4  |
| Zone 1 .....        | 8,205                        | 37                          | 37                          | 0.00                      | 332                | 8.97   | 1  |
| Dubti .....         | 1,486                        | -                           | -                           | -                         | -                  | -  | -  |
| Asayita .....       | 4,228                        | 37                          | 37                          | 0.01                      | 332                | 8.97   | 1  |
| Afambo .....        | 2,491                        | -                           | -                           | -                         | -                  | -  | -  |
| Zone 3 .....        | 5,765                        | 119                         | 162                         | 0.03                      | 67,629             | 309.12                                       | 5  |
| Amibara .....       | 1,771                        | 62                          | 87                          | 0.05                      | 49,750             | 428.97                                       | 4  |
| Awash Fentale ..... | 1,413                        | 13                          | 25                          | 0.02                      | 10,192             | 203.84                                       | 8  |
| Argoba Liyu .....   | 2,582                        | 44                          | 49                          | 0.02                      | 7,687              | 156.35                                       | 5  |

TABLE 8.19A: - 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) |
|---------------------|------------------------------|-----------------------------|---------------------------------|---------------------------|--------------------|--|--|
| Afar Region .....   | 13,970                       | 66                          | 79                              | 0.01                      | *                  | *  | 6  |
| Zone 1 .....        | 8,205                        | *                           | *                               | -                         | *                  | *  | *  |
| Dubti .....         | 1,486                        | -                           | -                               | -                         | -                  | -  | -  |
| Asayita .....       | 4,228                        | *                           | *                               | -                         | *                  | *  | *  |
| Afambo .....        | 2,491                        | *                           | *                               | -                         | *                  | *  | *  |
| Zone 3 .....        | 5,765                        | 32                          | 45                              | 0.01                      | 6,896              | 124.92   | 8  |
| Amibara .....       | 1,771                        | 11                          | 11                              | 0.01                      | 2,038              | 185.24   | 10   |
| Awash Fentale ..... | 1,413                        | 13                          | 25                              | 0.02                      | 2,548              | 50.96  | 8  |
| Argoba Liyu .....   | 2,582                        | *                           | *                               | -                         | *                  | *  | *  |

TABLE 8.20A: -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) |
|---------------------|------------------------------|-----------------------------|-------------------------|---------------------------|--------------------|---|---------------------------|
| Afar Region .....   | 13,970                       | 5,073                       | 9,661                   | 0.69                      | 7,159,864          | 390.26                                  | 8                         |
| Zone 1 .....        | 8,205                        | 2,860                       | 5,446                   | 0.66                      | 3,947,430          | 383.06                                  | 8                         |
| Dubti .....         | 1,486                        | 86                          | 173                     | 0.12                      | 119,552            | 345.92                                  | 8                         |
| Asayita .....       | 4,228                        | 1,680                       | 3,318                   | 0.78                      | 2,389,414          | 364.95                                  | 8                         |
| Afambo .....        | 2,491                        | 1,093                       | 1,955                   | 0.78                      | 1,438,464          | 417.09                                  | 9                         |
| Zone 3 .....        | 5,765                        | 2,213                       | 4,215                   | 0.73                      | 3,212,434          | 399.55                                  | 7                         |
| Amibara .....       | 1,771                        | -                           | -                       | -                         | -                  | -                                       | -                         |
| Awash Fentale ..... | 1,413                        | 178                         | 272                     | 0.19                      | 253,658            | 609.06                                  | 12                        |
| Argoba Liyu .....   | 2,582                        | 2,035                       | 3,943                   | 1.53                      | 2,958,776          | 385.10                                  | 7                         |

TABLE 8.21A: - Number of Holders Reporting Ass (For threshing/ transportation) 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) |
|---------------------|------------------------------|-----------------------------|--------------------------|---------------------------|--------------------|--|----------------------------|
| Afar Region .....   | 13,970                       | 2,012                       | 2,971                    | 0.21                      | 723,821            | 162.99                                   | 7                          |
| Zone 1 .....        | 8,205                        | 360                         | 698                      | 0.09                      | 178,903            | 141.95                                   | 8                          |
| Dubti .....         | 1,486                        | 69                          | 93                       | 0.06                      | 19,364             | 156.56                                   | 8                          |
| Asayita .....       | 4,228                        | 219                         | 460                      | 0.11                      | 130,233            | 150.44                                   | 9                          |
| Afambo .....        | 2,491                        | *                           | *                        | -                         | *                  | *  | *                          |
| Zone 3 .....        | 5,765                        | 1,652                       | 2,273                    | 0.39                      | 544,919            | 169.45                                   | 7                          |
| Amibara .....       | 1,771                        | 181                         | 327                      | 0.18                      | 118,461            | 197.38                                   | 3                          |
| Awash Fentale ..... | 1,413                        | 154                         | 233                      | 0.16                      | 73,565             | 211.32                                   | 13                         |
| Argoba Liyu .....   | 2,582                        | 1,317                       | 1,714                    | 0.66                      | 352,893            | 158.33                                   | 7                          |

TABLE 8.22A: - 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) |
|---------------------|------------------------------|-----------------------------|---------------------------|---------------------------|--------------------|--|------------------------------|
| Afar Region .....   | 13,970                       | 2,390                       | 3,383                     | 0.24                      | 3,354,950          | 780.54                                     | 13                           |
| Zone 1 .....        | 8,205                        | 1,972                       | 2,591                     | 0.32                      | 2,668,997          | 872.26                                     | 13                           |
| Dubti .....         | 1,486                        | 188                         | 245                       | 0.16                      | 283,844            | 904.80                                     | 10                           |
| Asayita .....       | 4,228                        | 1,041                       | 1,531                     | 0.36                      | 1,518,814          | 809.35                                     | 13                           |
| Afambo .....        | 2,491                        | 744                         | 815                       | 0.33                      | 866,339            | 980.65                                     | 14                           |
| Zone 3 .....        | 5,765                        | 418                         | 792                       | 0.14                      | 685,953            | 480.47                                     | 13                           |
| Amibara .....       | 1,771                        | 34                          | 52                        | 0.03                      | 74,595             | 930.58                                     | 10                           |
| Awash Fentale ..... | 1,413                        | 283                         | 324                       | 0.23                      | 287,085            | 779.95                                     | 15                           |
| Argoba Liyu .....   | 2,582                        | 101                         | 416                       | 0.16                      | 324,273            | 190.95                                     | 8                            |

TABLE 8.23A: - Number of Holders Reporting Cattle (Working Age for Threshing and 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) |
|---------------------|------------------------------|-----------------------------|---------------------------|---------------------------|--------------------|---|-------------------------------|
| Afar Region .....   | 13,970                       | 5,006                       | 12,380                    | 0.89                      | 8,270,657          | 289.19                                      | 8                             |
| Zone 1 .....        | 8,205                        | 2,701                       | 5,907                     | 0.72                      | 4,117,577          | 334.00                                      | 8                             |
| Dubti .....         | 1,486                        | 27                          | 58                        | 0.04                      | 41,085             | 336.31                                      | 7                             |
| Asayita .....       | 4,228                        | 1,550                       | 3,577                     | 0.85                      | 2,569,288          | 310.04                                      | 7                             |
| Afambo .....        | 2,491                        | 1,123                       | 2,273                     | 0.91                      | 1,507,204          | 371.49                                      | 8                             |
| Zone 3 .....        | 5,765                        | 2,306                       | 6,473                     | 1.12                      | 4,153,080          | 248.31                                      | 7                             |
| Amibara .....       | 1,771                        | -                           | -                         | -                         | -                  | -   | -                             |
| Awash Fentale ..... | 1,413                        | 188                         | 292                       | 0.21                      | 280,181            | 612.76                                      | 12                            |
| Argoba Liyu .....   | 2,582                        | 2,118                       | 6,181                     | 2.39                      | 3,872,899          | 231.09                                      | 7                             |

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

| Geographic Area     | Total Number of Crop Holders | Number of Holders Reporting | Number of Horses Reported | Average Number Per Holder | Total Value (Birr) | Average Replacement Value Per Horse (Birr) | Average Age of Horse (Years) |
|---------------------|------------------------------|-----------------------------|---------------------------|---------------------------|--------------------|--|------------------------------|
| Afar Region .....   | 13,970                       | 20                          | 33                        | 0.00                      | 18,487             | 309.27                                     | 8                            |
| Zone 1 .....        | 8,205                        | -                           | -                         | -                         | -                  | -  | -                            |
| Dubti .....         | 1,486                        | -                           | -                         | -                         | -                  | -  | -                            |
| Asayita .....       | 4,228                        | -                           | -                         | -                         | -                  | -  | -                            |
| Afambo .....        | 2,491                        | -                           | -                         | -                         | -                  | -  | -                            |
| Zone 3 .....        | 5,765                        | 20                          | 33                        | 0.01                      | 18,487             | 309.27                                     | 8                            |
| Amibara .....       | 1,771                        | -                           | -                         | -                         | -                  | -  | -                            |
| Awash Fentale ..... | 1,413                        | 13                          | 25                        | 0.02                      | 16,562             | 331.24                                     | 7                            |
| Argoba Liyu .....   | 2,582                        | *                           | *                         | -                         | *                  | *  | *                            |

TABLE 8.25A:- 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) |
|---------------------|------------------------------|-----------------------------|--------------------------|---------------------------|--------------------|---|-----------------------------|
| Afar Region .....   | 13,970                       | 127                         | 167                      | 0.01                      | 238,053            | 934.51                                    | 11                          |
| Zone 1 .....        | 8,205                        | 44                          | *                        | -                         | *                  | *   | 11                          |
| Dubti .....         | 1,486                        | -                           | -                        | -                         | -                  | -   | -                           |
| Asayita .....       | 4,228                        | 44                          | *                        | -                         | *                  | *   | 11                          |
| Afambo .....        | 2,491                        | -                           | -                        | -                         | -                  | -   | -                           |
| Zone 3 .....        | 5,765                        | 83                          | 83                       | 0.01                      | 69,630             | 838.92                                    | 11                          |
| Amibara .....       | 1,771                        | -                           | -                        | -                         | -                  | -   | -                           |
| Awash Fentale ..... | 1,413                        | 13                          | 13                       | 0.01                      | 7,644              | 588.00                                    | 10                          |
| Argoba Liyu .....   | 2,582                        | 70                          | 70                       | 0.03                      | 61,986             | 885.51                                    | 12                          |

TABLE 8.26A:- 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) |
|---------------------|------------------------------|-----------------------------|--------------------------------|---------------------------|--------------------|---|--|
| Afar Region .....   | 13,970                       | 676                         | 1,165                          | 0.08                      | 2,574              | 1.25  | 2  |
| Zone 1 .....        | 8,205                        | -                           | -                              | -                         | -                  | -   | -  |
| Dubti .....         | 1,486                        | -                           | -                              | -                         | -                  | -   | -  |
| Asayita .....       | 4,228                        | -                           | -                              | -                         | -                  | -   | -  |
| Afambo .....        | 2,491                        | -                           | -                              | -                         | -                  | -   | -  |
| Zone 3 .....        | 5,765                        | 676                         | 1,165                          | 0.20                      | 2,574              | 1.25  | 2  |
| Amibara .....       | 1,771                        | -                           | -                              | -                         | -                  | -   | -  |
| Awash Fentale ..... | 1,413                        | -                           | -                              | -                         | -                  | -   | -  |
| Argoba Liyu .....   | 2,582                        | 676                         | 1,165                          | 0.45                      | 2,574              | 1.25  | 2  |

TABLE 8.27A: - 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 'Gotteras' Reported | Average Number Per Holder | Total Value (Birr) | Average Replacement Value Per 'Gottera' (Birr) | Average Storage Capacity of 'Gottera' (Quintal) |
|---------------------|------------------------------|-----------------------------|-------------------------------|---------------------------|--------------------|--|---|
| Afar Region .....   | 13,970                       | 1,658                       | 2,860                         | 0.20                      | 30,365             | 6.75   | 7   |
| Zone 1 .....        | 8,205                        | -                           | -                             | -                         | -                  | -  | -   |
| Dubti .....         | 1,486                        | -                           | -                             | -                         | -                  | -  | -   |
| Asayita .....       | 4,228                        | -                           | -                             | -                         | -                  | -  | -   |
| Afambo .....        | 2,491                        | -                           | -                             | -                         | -                  | -  | -   |
| Zone 3 .....        | 5,765                        | 1,658                       | 2,860                         | 0.50                      | 30,365             | 6.75   | 7   |
| Amibara .....       | 1,771                        | -                           | -                             | -                         | -                  | -  | -   |
| Awash Fentale ..... | 1,413                        | -                           | -                             | -                         | -                  | -  | -   |
| Argoba Liyu .....   | 2,582                        | 1,658                       | 2,860                         | 1.11                      | 30,365             | 6.75   | 7   |

TABLE 8.28A: - 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) |
|---------------------|------------------------------|-----------------------------|-------------------------------|---------------------------|--------------------|--|---|
| Afar Region .....   | 13,970                       | 1,759                       | 2,017                         | 0.14                      | 81,243             | 36.16  | 18  |
| Zone 1 .....        | 8,205                        | *                           | *                             | -                         | *                  | *  | *   |
| Dubti .....         | 1,486                        | *                           | *                             | -                         | *                  | *  | *   |
| Asayita .....       | 4,228                        | *                           | *                             | -                         | *                  | *  | *   |
| Afambo .....        | 2,491                        | *                           | *                             | -                         | *                  | *  | *   |
| Zone 3 .....        | 5,765                        | 1,629                       | 1,887                         | 0.33                      | 76,475             | 36.12  | 14  |
| Amibara .....       | 1,771                        | -                           | -                             | -                         | -                  | -  | -   |
| Awash Fentale ..... | 1,413                        | 9                           | 44                            | 0.03                      | 222                | 1.01   | 6   |
| Argoba Liyu .....   | 2,582                        | 1,620                       | 1,843                         | 0.71                      | 76,253             | 36.96  | 14  |

STATISTICAL TABLES PRESENTING THE CENSUS  
RESULTS AT  
ZONAL AND WOREDA LEVELS

Tables 8.1B- 8.28B

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             | %    |
| Afar Region .....   | 4,612                             | 33.01 | 5,516   | 39.48 | 2,487    | 17.80 | 960        | 6.87  | 197       | 1.41 | 198                 | 1.42 |
| Zone 1 .....        | 2,562                             | 31.22 | 3,999   | 48.74 | 1,240    | 15.11 | 356        | 4.34  | 15        | 0.18 | 33                  | 0.40 |
| Dubti .....         | 536                               | 36.07 | 711     | 47.85 | 202      | 13.59 | 27         | 1.82  | 2         | 0.13 | 8                   | 0.54 |
| Asayita .....       | 1,176                             | 27.81 | 2,054   | 48.58 | 743      | 17.57 | 242        | 5.72  | 13        | 0.31 | -                   | -    |
| Afambo .....        | 850                               | 34.12 | 1,234   | 49.54 | 295      | 11.84 | 87         | 3.49  | -         | -    | 25                  | 1.00 |
| Zone 3 .....        | 2,048                             | 35.52 | 1,517   | 26.31 | 1,248    | 21.65 | 604        | 10.48 | 182       | 3.16 | 166                 | 2.88 |
| Amibara .....       | 1,329                             | 75.04 | 353     | 19.93 | 50       | 2.82  | -          | -     | 12        | 0.68 | 27                  | 1.52 |
| Awash Fentale ..... | 561                               | 39.70 | 619     | 43.81 | 220      | 15.57 | 13         | 0.92  | -         | -    | -                   | -    |
| Argoba Liyu .....   | 159                               | 6.16  | 546     | 21.15 | 978      | 37.88 | 591        | 22.89 | 170       | 6.58 | 138                 | 5.34 |

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                  | %    |
| Afar Region .....   | 9,977                             | 71.42 | 3,377        | 24.17 | 502           | 3.59 | 89              | 0.64 | 13             | 0.09 | 12                       | 0.09 |
| Zone 1 .....        | 6,124                             | 74.64 | 1,711        | 20.85 | 309           | 3.77 | 61              | 0.74 | -              | -    | -                        | -    |
| Dubti .....         | 1,188                             | 79.95 | 278          | 18.71 | 20            | 1.35 | -               | -    | -              | -    | -                        | -    |
| Asayita .....       | 2,744                             | 64.90 | 1,154        | 27.29 | 269           | 6.36 | 61              | 1.44 | -              | -    | -                        | -    |
| Afambo .....        | 2,192                             | 88.00 | 279          | 11.20 | 20            | 0.80 | -               | -    | -              | -    | -                        | -    |
| Zone 3 .....        | 3,853                             | 66.83 | 1,666        | 28.90 | 193           | 3.35 | 28              | 0.49 | 13             | 0.23 | 12                       | 0.21 |
| Amibara .....       | 707                               | 39.92 | 914          | 51.61 | 110           | 6.21 | 28              | 1.58 | -              | -    | 12                       | 0.68 |
| Awash Fentale ..... | 605                               | 42.82 | 712          | 50.39 | 83            | 5.87 | -               | -    | 13             | 0.92 | -                        | -    |
| Argoba Liyu .....   | 2,541                             | 98.41 | 41           | 1.59  | -             | -    | -               | -    | -              | -    | -                        | -    |

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                | %    |
| Afar Region .....   | 5,800                             | 41.52 | 6,396      | 45.78 | 1,373       | 9.83  | 251           | 1.80 | 110          | 0.79 | 40                     | 0.29 |
| Zone 1 .....        | 2,720                             | 33.15 | 4,076      | 49.68 | 1,089       | 13.27 | 219           | 2.67 | 74           | 0.90 | 27                     | 0.33 |
| Dubti .....         | 684                               | 46.03 | 537        | 36.14 | 150         | 10.09 | 82            | 5.52 | 21           | 1.41 | 12                     | 0.81 |
| Asayita .....       | 1,088                             | 25.73 | 2,134      | 50.47 | 825         | 19.51 | 123           | 2.91 | 53           | 1.25 | 5                      | 0.12 |
| Afambo .....        | 946                               | 37.98 | 1,405      | 56.40 | 115         | 4.62  | 15            | 0.60 | -            | -    | 10                     | 0.40 |
| Zone 3 .....        | 3,081                             | 53.44 | 2,321      | 40.26 | 284         | 4.93  | 31            | 0.54 | 36           | 0.62 | 12                     | 0.21 |
| Amibara .....       | 436                               | 24.62 | 1,124      | 63.47 | 157         | 8.87  | 23            | 1.30 | 19           | 1.07 | 12                     | 0.68 |
| Awash Fentale ..... | 873                               | 61.78 | 479        | 33.90 | 48          | 3.40  | -             | -    | 13           | 0.92 | -                      | -    |
| Argoba Liyu .....   | 1,773                             | 68.67 | 718        | 27.81 | 79          | 3.06  | 8             | 0.31 | 4            | 0.15 | -                      | -    |

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             | % |
| Afar Region .....   | 13,105                            | 93.81 | 764     | 5.47  | 88       | 0.63 | 13         | 0.09 | -         | - | -                   | - |
| Zone 1 .....        | 7,423                             | 90.47 | 681     | 8.30  | 88       | 1.07 | 13         | 0.16 | -         | - | -                   | - |
| Dubti .....         | 1,466                             | 98.65 | 20      | 1.35  | -        | -    | -          | -    | -         | - | -                   | - |
| Asayita .....       | 3,675                             | 86.92 | 467     | 11.05 | 73       | 1.73 | 13         | 0.31 | -         | - | -                   | - |
| Afambo .....        | 2,282                             | 91.61 | 194     | 7.79  | 15       | 0.60 | -          | -    | -         | - | -                   | - |
| Zone 3 .....        | 5,682                             | 98.56 | 83      | 1.44  | -        | -    | -          | -    | -         | - | -                   | - |
| Amibara .....       | 1,734                             | 97.91 | 37      | 2.09  | -        | -    | -          | -    | -         | - | -                   | - |
| Awash Fentale ..... | 1,398                             | 98.94 | 15      | 1.06  | -        | -    | -          | -    | -         | - | -                   | - |
| Argoba Liyu .....   | 2,552                             | 98.84 | 30      | 1.16  | -        | -    | -          | -    | -         | - | -                   | - |

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                      | % |
| Afar Region .....   | 13,263                            | 94.94  | 599              | 4.29  | 108               | 0.77 | -                   | - | -                  | - | -                            | - |
| Zone 1 .....        | 7,538                             | 91.87  | 572              | 6.97  | 95                | 1.16 | -                   | - | -                  | - | -                            | - |
| Dubti .....         | 1,486                             | 100.00 | -                | -     | -                 | -    | -                   | - | -                  | - | -                            | - |
| Asayita .....       | 3,629                             | 85.83  | 504              | 11.92 | 95                | 2.25 | -                   | - | -                  | - | -                            | - |
| Afambo .....        | 2,423                             | 97.27  | 68               | 2.73  | -                 | -    | -                   | - | -                  | - | -                            | - |
| Zone 3 .....        | 5,725                             | 99.31  | 27               | 0.47  | 13                | 0.23 | -                   | - | -                  | - | -                            | - |
| Amibara .....       | 1,768                             | 99.83  | 3                | 0.17  | -                 | -    | -                   | - | -                  | - | -                            | - |
| Awash Fentale ..... | 1,400                             | 99.08  | -                | -     | 13                | 0.92 | -                   | - | -                  | - | -                            | - |
| Argoba Liyu .....   | 2,558                             | 99.07  | 24               | 0.93  | -                 | -    | -                   | - | -                  | - | -                            | - |

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                  | %    |
| Afar Region .....   | 9,919                             | 71.00 | 2,351        | 16.83 | 1,062         | 7.60  | 333             | 2.38 | 224            | 1.60 | 81                       | 0.58 |
| Zone 1 .....        | 6,388                             | 77.85 | 919          | 11.20 | 534           | 6.51  | 183             | 2.23 | 147            | 1.79 | 34                       | 0.41 |
| Dubti .....         | 1,471                             | 98.99 | 6            | 0.40  | 9             | 0.61  | -               | -    | -              | -    | -                        | -    |
| Asayita .....       | 2,664                             | 63.01 | 699          | 16.53 | 501           | 11.85 | 183             | 4.33 | 147            | 3.48 | 34                       | 0.80 |
| Afambo .....        | 2,253                             | 90.45 | 214          | 8.59  | 24            | 0.96  | -               | -    | -              | -    | -                        | -    |
| Zone 3 .....        | 3,530                             | 61.23 | 1,432        | 24.84 | 528           | 9.16  | 150             | 2.60 | 77             | 1.34 | 48                       | 0.83 |
| Amibara .....       | 1,650                             | 93.17 | 76           | 4.29  | 33            | 1.86  | -               | -    | -              | -    | 12                       | 0.68 |
| Awash Fentale ..... | 1,270                             | 89.88 | 115          | 8.14  | 15            | 1.06  | -               | -    | 13             | 0.92 | -                        | -    |
| Argoba Liyu .....   | 611                               | 23.66 | 1,242        | 48.10 | 480           | 18.59 | 150             | 5.81 | 64             | 2.48 | 35                       | 1.36 |



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' |      |
|                     | Holders                           | %      | Holders     | %     | Holders      | %     | Holders        | %    | Holders       | %    | Holders                 | %    |
| Afar Region .....   | 8,014                             | 57.37  | 3,403       | 24.36 | 2,288        | 16.38 | 116            | 0.83 | 136           | 0.97 | 13                      | 0.09 |
| Zone 1 .....        | 4,572                             | 55.72  | 1,753       | 21.37 | 1,718        | 20.94 | 41             | 0.50 | 108           | 1.32 | 13                      | 0.16 |
| Dubti .....         | 1,351                             | 90.92  | 135         | 9.08  | -            | -     | -              | -    | -             | -    | -                       | -    |
| Asayita .....       | 2,340                             | 55.35  | 1,048       | 24.79 | 767          | 18.14 | 41             | 0.97 | 19            | 0.45 | 13                      | 0.31 |
| Afambo .....        | 881                               | 35.37  | 570         | 22.88 | 951          | 38.18 | -              | -    | 89            | 3.57 | -                       | -    |
| Zone 3 .....        | 3,442                             | 59.71  | 1,650       | 28.62 | 570          | 9.89  | 75             | 1.30 | 28            | 0.49 | -                       | -    |
| Amibara .....       | 1,771                             | 100.00 | -           | -     | -            | -     | -              | -    | -             | -    | -                       | -    |
| Awash Fentale ..... | 1,194                             | 84.50  | 166         | 11.75 | 38           | 2.69  | -              | -    | 15            | 1.06 | -                       | -    |
| Argoba Liyu .....   | 478                               | 18.51  | 1,484       | 57.47 | 532          | 20.60 | 75             | 2.90 | 13            | 0.50 | -                       | -    |

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 'Erfes' |       | Three 'Erfes' |      | Four 'Erfes' |      | Five and above 'Erfes' |      |
|                     | Holders                           | %      | Holders    | %     | Holders     | %     | Holders       | %    | Holders      | %    | Holders                | %    |
| Afar Region .....   | 8,115                             | 58.09  | 4,767      | 34.12 | 775         | 5.55  | 173           | 1.24 | 97           | 0.69 | 43                     | 0.31 |
| Zone 1 .....        | 4,618                             | 56.28  | 3,060      | 37.29 | 367         | 4.47  | 47            | 0.57 | 75           | 0.91 | 38                     | 0.46 |
| Dubti .....         | 1,361                             | 91.59  | 120        | 8.08  | 5           | 0.34  | -             | -    | -            | -    | -                      | -    |
| Asayita .....       | 2,357                             | 55.75  | 1,623      | 38.39 | 198         | 4.68  | 37            | 0.88 | -            | -    | 13                     | 0.31 |
| Afambo .....        | 900                               | 36.13  | 1,317      | 52.87 | 164         | 6.58  | 10            | 0.40 | 75           | 3.01 | 25                     | 1.00 |
| Zone 3 .....        | 3,498                             | 60.68  | 1,707      | 29.61 | 408         | 7.08  | 126           | 2.19 | 22           | 0.38 | 4                      | 0.07 |
| Amibara .....       | 1,771                             | 100.00 | -          | -     | -           | -     | -             | -    | -            | -    | -                      | -    |
| Awash Fentale ..... | 1,223                             | 86.55  | 99         | 7.01  | 53          | 3.75  | 38            | 2.69 | -            | -    | -                      | -    |
| Argoba Liyu .....   | 505                               | 19.56  | 1,608      | 62.28 | 355         | 13.75 | 88            | 3.41 | 22           | 0.85 | 4                      | 0.15 |

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 |      |
|                     | Holders                           | %      | Holders         | %     | Holders          | %     | Holders            | %    | Holders           | %    | Holders                     | %    |
| Afar Region .....   | 7,882                             | 56.42  | 5,068           | 36.28 | 818              | 5.86  | 133                | 0.95 | 56                | 0.40 | 13                          | 0.09 |
| Zone 1 .....        | 4,442                             | 54.14  | 3,335           | 40.65 | 319              | 3.89  | 54                 | 0.66 | 42                | 0.51 | 13                          | 0.16 |
| Dubti .....         | 1,351                             | 90.92  | 135             | 9.08  | -                | -     | -                  | -    | -                 | -    | -                           | -    |
| Asayita .....       | 2,307                             | 54.56  | 1,664           | 39.36 | 184              | 4.35  | 43                 | 1.02 | 17                | 0.40 | 13                          | 0.31 |
| Afambo .....        | 785                               | 31.51  | 1,536           | 61.66 | 135              | 5.42  | 10                 | 0.40 | 25                | 1.00 | -                           | -    |
| Zone 3 .....        | 3,441                             | 59.69  | 1,732           | 30.04 | 499              | 8.66  | 79                 | 1.37 | 14                | 0.24 | -                           | -    |
| Amibara .....       | 1,771                             | 100.00 | -               | -     | -                | -     | -                  | -    | -                 | -    | -                           | -    |
| Awash Fentale ..... | 1,172                             | 82.94  | 175             | 12.38 | 66               | 4.67  | -                  | -    | -                 | -    | -                           | -    |
| Argoba Liyu .....   | 499                               | 19.33  | 1,557           | 60.30 | 433              | 16.77 | 79                 | 3.06 | 14                | 0.54 | -                           | -    |

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                    | %    |
| Afar Region .....   | 7,886                             | 56.45  | 5,154          | 36.89 | 822             | 5.88  | 81                | 0.58 | 9                | 0.06 | 18                         | 0.13 |
| Zone 1 .....        | 4,453                             | 54.27  | 3,257          | 39.70 | 418             | 5.09  | 55                | 0.67 | 9                | 0.11 | 13                         | 0.16 |
| Dubti .....         | 1,350                             | 90.85  | 131            | 8.82  | 5               | 0.34  | -                 | -    | -                | -    | -                          | -    |
| Asayita .....       | 2,317                             | 54.80  | 1,628          | 38.51 | 231             | 5.46  | 30                | 0.71 | 9                | 0.21 | 13                         | 0.31 |
| Afambo .....        | 787                               | 31.59  | 1,497          | 60.10 | 182             | 7.31  | 25                | 1.00 | -                | -    | -                          | -    |
| Zone 3 .....        | 3,433                             | 59.55  | 1,897          | 32.91 | 404             | 7.01  | 26                | 0.45 | -                | -    | 5                          | 0.09 |
| Amibara .....       | 1,771                             | 100.00 | -              | -     | -               | -     | -                 | -    | -                | -    | -                          | -    |
| Awash Fentale ..... | 1,200                             | 84.93  | 178            | 12.60 | 35              | 2.48  | -                 | -    | -                | -    | -                          | -    |
| Argoba Liyu .....   | 463                               | 17.93  | 1,719          | 66.58 | 369             | 14.29 | 26                | 1.01 | -                | -    | 5                          | 0.19 |

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                     | %    |
| Afar Region .....   | 7,938                             | 56.82  | 5,127           | 36.70 | 764              | 5.47  | 69                 | 0.49 | 59                | 0.42 | 13                          | 0.09 |
| Zone 1 .....        | 4,487                             | 54.69  | 3,186           | 38.83 | 433              | 5.28  | 27                 | 0.33 | 59                | 0.72 | 13                          | 0.16 |
| Dubti .....         | 1,348                             | 90.71  | 129             | 8.68  | 9                | 0.61  | -                  | -    | -                 | -    | -                           | -    |
| Asayita .....       | 2,331                             | 55.13  | 1,659           | 39.24 | 199              | 4.71  | 17                 | 0.40 | 9                 | 0.21 | 13                          | 0.31 |
| Afambo .....        | 807                               | 32.40  | 1,398           | 56.12 | 226              | 9.07  | 10                 | 0.40 | 50                | 2.01 | -                           | -    |
| Zone 3 .....        | 3,450                             | 59.84  | 1,942           | 33.69 | 331              | 5.74  | 42                 | 0.73 | -                 | -    | -                           | -    |
| Amibara .....       | 1,771                             | 100.00 | -               | -     | -                | -     | -                  | -    | -                 | -    | -                           | -    |
| Awash Fentale ..... | 1,200                             | 84.93  | 165             | 11.68 | 48               | 3.40  | -                  | -    | -                 | -    | -                           | -    |
| Argoba Liyu .....   | 481                               | 18.63  | 1,776           | 68.78 | 283              | 10.96 | 42                 | 1.63 | -                 | -    | -                           | -    |

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              | %    |
| Afar Region .....   | 7,872                             | 56.35  | 5,233    | 37.46 | 755       | 5.40  | 88          | 0.63 | 9          | 0.06 | 13                   | 0.09 |
| Zone 1 .....        | 4,447                             | 54.20  | 3,321    | 40.48 | 375       | 4.57  | 40          | 0.49 | 9          | 0.11 | 13                   | 0.16 |
| Dubti .....         | 1,351                             | 90.92  | 135      | 9.08  | -         | -     | -           | -    | -          | -    | -                    | -    |
| Asayita .....       | 2,321                             | 54.90  | 1,639    | 38.77 | 216       | 5.11  | 30          | 0.71 | 9          | 0.21 | 13                   | 0.31 |
| Afambo .....        | 774                               | 31.07  | 1,547    | 62.10 | 160       | 6.42  | 10          | 0.40 | -          | -    | -                    | -    |
| Zone 3 .....        | 3,425                             | 59.41  | 1,912    | 33.17 | 380       | 6.59  | 48          | 0.83 | -          | -    | -                    | -    |
| Amibara .....       | 1,771                             | 100.00 | -        | -     | -         | -     | -           | -    | -          | -    | -                    | -    |
| Awash Fentale ..... | 1,172                             | 82.94  | 188      | 13.31 | 53        | 3.75  | -           | -    | -          | -    | -                    | -    |
| Argoba Liyu .....   | 484                               | 18.75  | 1,724    | 66.77 | 326       | 12.63 | 48          | 1.86 | -          | -    | -                    | -    |

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                | %    |
| Afar Region .....   | 5,146                             | 36.84 | 5,170      | 37.01 | 2,370       | 16.96 | 830           | 5.94  | 288          | 2.06 | 166                    | 1.19 |
| Zone 1 .....        | 3,007                             | 36.65 | 3,587      | 43.72 | 1,100       | 13.41 | 328           | 4.00  | 148          | 1.80 | 35                     | 0.43 |
| Dubti .....         | 879                               | 59.15 | 519        | 34.93 | 74          | 4.98  | 10            | 0.67  | 2            | 0.13 | 2                      | 0.13 |
| Asayita .....       | 1,053                             | 24.91 | 1,870      | 44.23 | 887         | 20.98 | 258           | 6.10  | 126          | 2.98 | 34                     | 0.80 |
| Afambo .....        | 1,073                             | 43.08 | 1,198      | 48.09 | 140         | 5.62  | 60            | 2.41  | 20           | 0.80 | -                      | -    |
| Zone 3 .....        | 2,139                             | 37.10 | 1,583      | 27.46 | 1,270       | 22.03 | 502           | 8.71  | 140          | 2.43 | 131                    | 2.27 |
| Amibara .....       | 1,158                             | 65.39 | 553        | 31.23 | 48          | 2.71  | 12            | 0.68  | -            | -    | -                      | -    |
| Awash Fentale ..... | 731                               | 51.73 | 532        | 37.65 | 137         | 9.70  | 13            | 0.92  | -            | -    | -                      | -    |
| Argoba Liyu .....   | 250                               | 9.68  | 499        | 19.33 | 1,085       | 42.02 | 477           | 18.47 | 140          | 5.42 | 131                    | 5.07 |

Table 8.14B:- 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                         | %    |
| Afar Region .....   | 13,124                            | 93.94  | 541                 | 3.87  | 223                  | 1.60 | 58                     | 0.42 | 10                    | 0.07 | 14                              | 0.10 |
| Zone 1 .....        | 8,177                             | 99.66  | 23                  | 0.28  | -                    | -    | 5                      | 0.06 | -                     | -    | -                               | -    |
| Dubti .....         | 1,486                             | 100.00 | -                   | -     | -                    | -    | -                      | -    | -                     | -    | -                               | -    |
| Asayita .....       | 4,200                             | 99.34  | 23                  | 0.54  | -                    | -    | 5                      | 0.12 | -                     | -    | -                               | -    |
| Afambo .....        | 2,491                             | 100.00 | -                   | -     | -                    | -    | -                      | -    | -                     | -    | -                               | -    |
| Zone 3 .....        | 4,947                             | 85.81  | 517                 | 8.97  | 223                  | 3.87 | 54                     | 0.94 | 10                    | 0.17 | 14                              | 0.24 |
| Amibara .....       | 1,736                             | 98.02  | 35                  | 1.98  | -                    | -    | -                      | -    | -                     | -    | -                               | -    |
| Awash Fentale ..... | 1,413                             | 100.00 | -                   | -     | -                    | -    | -                      | -    | -                     | -    | -                               | -    |
| Argoba Liyu .....   | 1,799                             | 69.67  | 482                 | 18.67 | 223                  | 8.64 | 54                     | 2.09 | 10                    | 0.39 | 14                              | 0.54 |

Table 8.15B:- 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                         | %    |
| Afar Region .....   | 13,805                            | 98.82  | 82                  | 0.59 | 34                   | 0.24 | 10                     | 0.07 | 16                    | 0.11 | 23                              | 0.16 |
| Zone 1 .....        | 8,106                             | 98.79  | 77                  | 0.94 | 22                   | 0.27 | -                      | -    | -                     | -    | -                               | -    |
| Dubti .....         | 1,478                             | 99.46  | 6                   | 0.40 | 2                    | 0.13 | -                      | -    | -                     | -    | -                               | -    |
| Asayita .....       | 4,161                             | 98.42  | 46                  | 1.09 | 21                   | 0.50 | -                      | -    | -                     | -    | -                               | -    |
| Afambo .....        | 2,466                             | 99.00  | 25                  | 1.00 | -                    | -    | -                      | -    | -                     | -    | -                               | -    |
| Zone 3 .....        | 5,700                             | 98.87  | 4                   | 0.07 | 12                   | 0.21 | 10                     | 0.17 | 16                    | 0.28 | 23                              | 0.40 |
| Amibara .....       | 1,771                             | 100.00 | -                   | -    | -                    | -    | -                      | -    | -                     | -    | -                               | -    |
| Awash Fentale ..... | 1,413                             | 100.00 | -                   | -    | -                    | -    | -                      | -    | -                     | -    | -                               | -    |
| Argoba Liyu .....   | 2,517                             | 97.48  | 4                   | 0.15 | 12                   | 0.46 | 10                     | 0.39 | 16                    | 0.62 | 23                              | 0.89 |

Table 8.16B:- 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                         | % |
| Afar Region .....   | 13,283                            | 95.08  | 603                 | 4.32  | 81                   | 0.58 | 3                      | 0.02 | -                     | - | -                               | - |
| Zone 1 .....        | 8,205                             | 100.00 | -                   | -     | -                    | -    | -                      | -    | -                     | - | -                               | - |
| Dubti .....         | 1,486                             | 100.00 | -                   | -     | -                    | -    | -                      | -    | -                     | - | -                               | - |
| Asayita .....       | 4,228                             | 100.00 | -                   | -     | -                    | -    | -                      | -    | -                     | - | -                               | - |
| Afambo .....        | 2,491                             | 100.00 | -                   | -     | -                    | -    | -                      | -    | -                     | - | -                               | - |
| Zone 3 .....        | 5,078                             | 88.08  | 603                 | 10.46 | 81                   | 1.41 | 3                      | 0.05 | -                     | - | -                               | - |
| Amibara .....       | 1,771                             | 100.00 | -                   | -     | -                    | -    | -                      | -    | -                     | - | -                               | - |
| Awash Fentale ..... | 1,413                             | 100.00 | -                   | -     | -                    | -    | -                      | -    | -                     | - | -                               | - |
| Argoba Liyu .....   | 1,895                             | 73.39  | 603                 | 23.35 | 81                   | 3.14 | 3                      | 0.12 | -                     | - | -                               | - |

Table 8.17B:- 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              | % |
| Afar Region .....   | 13,901                            | 99.51  | 53       | 0.38 | 13        | 0.09 | 3           | 0.02 | -          | - | -                    | - |
| Zone 1 .....        | 8,149                             | 99.32  | 53       | 0.65 | -         | -    | 3           | 0.04 | -          | - | -                    | - |
| Dubti .....         | 1,480                             | 99.60  | 6        | 0.40 | -         | -    | -           | -    | -          | - | -                    | - |
| Asayita .....       | 4,178                             | 98.82  | 47       | 1.11 | -         | -    | 3           | 0.07 | -          | - | -                    | - |
| Afambo .....        | 2,491                             | 100.00 | -        | -    | -         | -    | -           | -    | -          | - | -                    | - |
| Zone 3 .....        | 5,752                             | 99.77  | -        | -    | 13        | 0.23 | -           | -    | -          | - | -                    | - |
| Amibara .....       | 1,771                             | 100.00 | -        | -    | -         | -    | -           | -    | -          | - | -                    | - |
| Awash Fentale ..... | 1,400                             | 99.08  | -        | -    | 13        | 0.92 | -           | -    | -          | - | -                    | - |
| Argoba Liyu .....   | 2,582                             | 100.00 | -        | -    | -         | -    | -           | -    | -          | - | -                    | - |

Table 8.18B:- 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                 | % |
| Afar Region .....   | 13,815                            | 98.89  | 125         | 0.89 | 18           | 0.13 | 12             | 0.09 | -             | - | -                       | - |
| Zone 1 .....        | 8,168                             | 99.55  | 37          | 0.45 | -            | -    | -              | -    | -             | - | -                       | - |
| Dubti .....         | 1,486                             | 100.00 | -           | -    | -            | -    | -              | -    | -             | - | -                       | - |
| Asayita .....       | 4,191                             | 99.12  | 37          | 0.88 | -            | -    | -              | -    | -             | - | -                       | - |
| Afambo .....        | 2,491                             | 100.00 | -           | -    | -            | -    | -              | -    | -             | - | -                       | - |
| Zone 3 .....        | 5,647                             | 97.95  | 88          | 1.53 | 18           | 0.31 | 12             | 0.21 | -             | - | -                       | - |
| Amibara .....       | 1,709                             | 96.50  | 50          | 2.82 | -            | -    | 12             | 0.68 | -             | - | -                       | - |
| Awash Fentale ..... | 1,400                             | 99.08  | -           | -    | 13           | 0.92 | -              | -    | -             | - | -                       | - |
| Argoba Liyu .....   | 2,538                             | 98.30  | 39          | 1.51 | 5            | 0.19 | -              | -    | -             | - | -                       | - |

Table 8.19B:- 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                     | % |
| Afar Region .....   | 13,904                            | 99.53  | 53              | 0.38 | 13               | 0.09 | -                  | - | -                 | - | -                           | - |
| Zone 1 .....        | 8,171                             | 99.59  | 34              | 0.41 | -                | -    | -                  | - | -                 | - | -                           | - |
| Dubti .....         | 1,486                             | 100.00 | -               | -    | -                | -    | -                  | - | -                 | - | -                           | - |
| Asayita .....       | 4,219                             | 99.79  | 9               | 0.21 | -                | -    | -                  | - | -                 | - | -                           | - |
| Afambo .....        | 2,466                             | 99.00  | 25              | 1.00 | -                | -    | -                  | - | -                 | - | -                           | - |
| Zone 3 .....        | 5,733                             | 99.44  | 19              | 0.33 | 13               | 0.23 | -                  | - | -                 | - | -                           | - |
| Amibara .....       | 1,760                             | 99.38  | 11              | 0.62 | -                | -    | -                  | - | -                 | - | -                           | - |
| Awash Fentale ..... | 1,400                             | 99.08  | -               | -    | 13               | 0.92 | -                  | - | -                 | - | -                           | - |
| Argoba Liyu .....   | 2,574                             | 99.69  | 8               | 0.31 | -                | -    | -                  | - | -                 | - | -                           | - |

Table 8.20B:- 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             | %    |
| Afar Region .....   | 8,898                             | 63.69  | 1,310   | 9.38  | 3,227    | 23.10 | 274        | 1.96 | 243       | 1.74 | 18                  | 0.13 |
| Zone 1 .....        | 5,345                             | 65.14  | 588     | 7.17  | 2,038    | 24.84 | 154        | 1.88 | 80        | 0.98 | -                   | -    |
| Dubti .....         | 1,399                             | 94.15  | 8       | 0.54  | 75       | 5.05  | -          | -    | 4         | 0.27 | -                   | -    |
| Asayita .....       | 2,547                             | 60.24  | 194     | 4.59  | 1,354    | 32.02 | 114        | 2.70 | 19        | 0.45 | -                   | -    |
| Afambo .....        | 1,398                             | 56.12  | 387     | 15.54 | 609      | 24.45 | 40         | 1.61 | 57        | 2.29 | -                   | -    |
| Zone 3 .....        | 3,553                             | 61.63  | 722     | 12.52 | 1,189    | 20.62 | 120        | 2.08 | 163       | 2.83 | 18                  | 0.31 |
| Amibara .....       | 1,771                             | 100.00 | -       | -     | -        | -     | -          | -    | -         | -    | -                   | -    |
| Awash Fentale ..... | 1,235                             | 87.40  | 84      | 5.94  | 94       | 6.65  | -          | -    | -         | -    | -                   | -    |
| Argoba Liyu .....   | 548                               | 21.22  | 638     | 24.71 | 1,095    | 42.41 | 120        | 4.65 | 163       | 6.31 | 18                  | 0.70 |

Table 8.21B:- 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              | %    |
| Afar Region .....   | 11,957                            | 85.59 | 1,225   | 8.77  | 672       | 4.81  | 105         | 0.75 | -          | - | 11                   | 0.08 |
| Zone 1 .....        | 7,844                             | 95.60 | 156     | 1.90  | 126       | 1.54  | 68          | 0.83 | -          | - | 11                   | 0.13 |
| Dubti .....         | 1,417                             | 95.36 | 45      | 3.03  | 24        | 1.62  | -           | -    | -          | - | -                    | -    |
| Asayita .....       | 4,010                             | 94.84 | 87      | 2.06  | 77        | 1.82  | 43          | 1.02 | -          | - | 11                   | 0.26 |
| Afambo .....        | 2,419                             | 97.11 | 24      | 0.96  | 24        | 0.96  | 24          | 0.96 | -          | - | -                    | -    |
| Zone 3 .....        | 4,113                             | 71.34 | 1,069   | 18.54 | 546       | 9.47  | 37          | 0.64 | -          | - | -                    | -    |
| Amibara .....       | 1,590                             | 89.78 | 35      | 1.98  | 146       | 8.24  | -           | -    | -          | - | -                    | -    |
| Awash Fentale ..... | 1,259                             | 89.10 | 88      | 6.23  | 53        | 3.75  | 13          | 0.92 | -          | - | -                    | -    |
| Argoba Liyu .....   | 1,264                             | 48.95 | 946     | 36.64 | 347       | 13.44 | 25          | 0.97 | -          | - | -                    | -    |

Table 8.22B:- 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               | %    |
| Afar Region .....  | 11,580                            | 82.89 | 1,878     | 13.44 | 389        | 2.78 | 50           | 0.36 | 18          | 0.13 | 55                    | 0.39 |
| Zone 1 .....       | 6,233                             | 75.97 | 1,607     | 19.59 | 294        | 3.58 | 35           | 0.43 | 12          | 0.15 | 24                    | 0.29 |
| Dubti.....         | 1,299                             | 87.42 | 133       | 8.95  | 51         | 3.43 | 3            | 0.20 | -           | -    | -                     | -    |
| Asayita.....       | 3,187                             | 75.38 | 789       | 18.66 | 196        | 4.64 | 20           | 0.47 | 12          | 0.28 | 24                    | 0.57 |
| Afambo.....        | 1,748                             | 70.17 | 684       | 27.46 | 47         | 1.89 | 12           | 0.48 | -           | -    | -                     | -    |
| Zone 3.....        | 5,347                             | 92.75 | 271       | 4.70  | 95         | 1.65 | 15           | 0.26 | 6           | 0.10 | 31                    | 0.54 |
| Amibara.....       | 1,737                             | 98.08 | 15        | 0.85  | 19         | 1.07 | -            | -    | -           | -    | -                     | -    |
| Awash Fentale..... | 1,130                             | 79.97 | 242       | 17.13 | 41         | 2.90 | -            | -    | -           | -    | -                     | -    |
| Argoba Liyu .....  | 2,481                             | 96.09 | 14        | 0.54  | 35         | 1.36 | 15           | 0.58 | 6           | 0.23 | 31                    | 1.20 |

Table 8.23B:- 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               | %     |
| Afar Region .....  | 8,963                             | 64.16  | 1,114      | 7.97  | 2,503      | 17.92 | 651          | 4.66  | 335         | 2.40 | 404                   | 2.89  |
| Zone 1 .....       | 5,505                             | 67.09  | 530        | 6.46  | 1,622      | 19.77 | 344          | 4.19  | 146         | 1.78 | 58                    | 0.71  |
| Dubti.....         | 1,458                             | 98.12  | 4          | 0.27  | 20         | 1.35  | -            | -     | 4           | 0.27 | -                     | -     |
| Asayita.....       | 2,677                             | 63.32  | 134        | 3.17  | 976        | 23.08 | 304          | 7.19  | 103         | 2.44 | 34                    | 0.80  |
| Afambo.....        | 1,367                             | 54.88  | 392        | 15.74 | 627        | 25.17 | 40           | 1.61  | 40          | 1.61 | 25                    | 1.00  |
| Zone 3.....        | 3,460                             | 60.02  | 584        | 10.13 | 880        | 15.26 | 307          | 5.33  | 189         | 3.28 | 345                   | 5.98  |
| Amibara.....       | 1,771                             | 100.00 | -          | -     | -          | -     | -            | -     | -           | -    | -                     | -     |
| Awash Fentale..... | 1,225                             | 86.69  | 84         | 5.94  | 104        | 7.36  | -            | -     | -           | -    | -                     | -     |
| Argoba Liyu .....  | 464                               | 17.97  | 500        | 19.36 | 777        | 30.09 | 307          | 11.89 | 189         | 7.32 | 345                   | 13.36 |

Table 8.24B:- Number of Crop Holders that Owned Horse (For threshing or transportation) by Geographic area.

| Geographic area    | Number of Crop holders that owned |        |           |      |            |      |              |   |             |   |                       |   |
|--------------------|-----------------------------------|--------|-----------|------|------------|------|--------------|---|-------------|---|-----------------------|---|
|                    | No Horse                          |        | One Horse |      | Two Horses |      | Three Horses |   | Four Horses |   | Five and above Horses |   |
|                    | Holders                           | %      | Holders   | %    | Holders    | %    | Holders      | % | Holders     | % | Holders               | % |
| Afar Region .....  | 13,949                            | 99.85  | 8         | 0.06 | 13         | 0.09 | -            | - | -           | - | -                     | - |
| Zone 1 .....       | 8,205                             | 100.00 | -         | -    | -          | -    | -            | - | -           | - | -                     | - |
| Dubti.....         | 1,486                             | 100.00 | -         | -    | -          | -    | -            | - | -           | - | -                     | - |
| Asayita.....       | 4,228                             | 100.00 | -         | -    | -          | -    | -            | - | -           | - | -                     | - |
| Afambo.....        | 2,491                             | 100.00 | -         | -    | -          | -    | -            | - | -           | - | -                     | - |
| Zone 3.....        | 5,744                             | 99.64  | 8         | 0.14 | 13         | 0.23 | -            | - | -           | - | -                     | - |
| Amibara.....       | 1,771                             | 100.00 | -         | -    | -          | -    | -            | - | -           | - | -                     | - |
| Awash Fentale..... | 1,400                             | 99.08  | -         | -    | 13         | 0.92 | -            | - | -           | - | -                     | - |
| Argoba Liyu .....  | 2,574                             | 99.69  | 8         | 0.31 | -          | -    | -            | - | -           | - | -                     | - |

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

| Geographic area     | Number of Crop holders that owned |        |          |      |           |      |             |      |            |   |                      |   |
|---------------------|-----------------------------------|--------|----------|------|-----------|------|-------------|------|------------|---|----------------------|---|
|                     | No Mule                           |        | One Mule |      | Two Mules |      | Three Mules |      | Four Mules |   | Five and above Mules |   |
|                     | Holders                           | %      | Holders  | %    | Holders   | %    | Holders     | %    | Holders    | % | Holders              | % |
| Afar Region .....   | 13,844                            | 99.10  | 100      | 0.72 | 13        | 0.09 | 13          | 0.09 | -          | - | -                    | - |
| Zone 1 .....        | 8,161                             | 99.46  | 18       | 0.22 | 13        | 0.16 | 13          | 0.16 | -          | - | -                    | - |
| Dubti .....         | 1,486                             | 100.00 | -        | -    | -         | -    | -           | -    | -          | - | -                    | - |
| Asayita .....       | 4,184                             | 98.96  | 18       | 0.43 | 13        | 0.31 | 13          | 0.31 | -          | - | -                    | - |
| Afambo .....        | 2,491                             | 100.00 | -        | -    | -         | -    | -           | -    | -          | - | -                    | - |
| Zone 3 .....        | 5,682                             | 98.56  | 83       | 1.44 | -         | -    | -           | -    | -          | - | -                    | - |
| Amibara .....       | 1,771                             | 100.00 | -        | -    | -         | -    | -           | -    | -          | - | -                    | - |
| Awash Fentale ..... | 1,400                             | 99.08  | 13       | 0.92 | -         | -    | -           | -    | -          | - | -                    | - |
| Argoba Liyu .....   | 2,512                             | 97.29  | 70       | 2.71 | -         | -    | -           | -    | -          | - | -                    | - |

Table 8.26B:- Number of Crop Holders that Owned Local Storage 'Debignit' by Geographic area.

| Geographic area     | Number of Crop holders that owned |        |                |       |                 |      |                   |      |                  |      |                            |      |
|---------------------|-----------------------------------|--------|----------------|-------|-----------------|------|-------------------|------|------------------|------|----------------------------|------|
|                     | No 'Debignit'                     |        | One 'Debignit' |       | Two 'Debignits' |      | Three 'Debignits' |      | Four 'Debignits' |      | Five and above 'Debignits' |      |
|                     | Holders                           | %      | Holders        | %     | Holders         | %    | Holders           | %    | Holders          | %    | Holders                    | %    |
| Afar Region .....   | 13,293                            | 95.15  | 342            | 2.45  | 226             | 1.62 | 71                | 0.51 | 28               | 0.20 | 10                         | 0.07 |
| Zone 1 .....        | 8,205                             | 100.00 | -              | -     | -               | -    | -                 | -    | -                | -    | -                          | -    |
| Dubti .....         | 1,486                             | 100.00 | -              | -     | -               | -    | -                 | -    | -                | -    | -                          | -    |
| Asayita .....       | 4,228                             | 100.00 | -              | -     | -               | -    | -                 | -    | -                | -    | -                          | -    |
| Afambo .....        | 2,491                             | 100.00 | -              | -     | -               | -    | -                 | -    | -                | -    | -                          | -    |
| Zone 3 .....        | 5,088                             | 88.26  | 342            | 5.93  | 226             | 3.92 | 71                | 1.23 | 28               | 0.49 | 10                         | 0.17 |
| Amibara .....       | 1,771                             | 100.00 | -              | -     | -               | -    | -                 | -    | -                | -    | -                          | -    |
| Awash Fentale ..... | 1,413                             | 100.00 | -              | -     | -               | -    | -                 | -    | -                | -    | -                          | -    |
| Argoba Liyu .....   | 1,905                             | 73.78  | 342            | 13.25 | 226             | 8.75 | 71                | 2.75 | 28               | 1.08 | 10                         | 0.39 |

Table 8.27B:- Number of Crop Holders that Owned Local Storage 'Gottera' by Geographic area.

| Geographic area     | Number of Crop holders that owned |        |               |       |                |       |                  |      |                 |      |                           |      |
|---------------------|-----------------------------------|--------|---------------|-------|----------------|-------|------------------|------|-----------------|------|---------------------------|------|
|                     | No 'Gottera'                      |        | One 'Gottera' |       | Two 'Gudguads' |       | Three 'Gudguads' |      | Four 'Gudguads' |      | Five and above 'Gudguads' |      |
|                     | Holders                           | %      | Holders       | %     | Holders        | %     | Holders          | %    | Holders         | %    | Holders                   | %    |
| Afar Region .....   | 12,312                            | 88.13  | 863           | 6.18  | 538            | 3.85  | 157              | 1.12 | 64              | 0.46 | 36                        | 0.26 |
| Zone 1 .....        | 8,205                             | 100.00 | -             | -     | -              | -     | -                | -    | -               | -    | -                         | -    |
| Dubti .....         | 1,486                             | 100.00 | -             | -     | -              | -     | -                | -    | -               | -    | -                         | -    |
| Asayita .....       | 4,228                             | 100.00 | -             | -     | -              | -     | -                | -    | -               | -    | -                         | -    |
| Afambo .....        | 2,491                             | 100.00 | -             | -     | -              | -     | -                | -    | -               | -    | -                         | -    |
| Zone 3 .....        | 4,107                             | 71.24  | 863           | 14.97 | 538            | 9.33  | 157              | 2.72 | 64              | 1.11 | 36                        | 0.62 |
| Amibara .....       | 1,771                             | 100.00 | -             | -     | -              | -     | -                | -    | -               | -    | -                         | -    |
| Awash Fentale ..... | 1,413                             | 100.00 | -             | -     | -              | -     | -                | -    | -               | -    | -                         | -    |
| Argoba Liyu .....   | 924                               | 35.79  | 863           | 33.42 | 538            | 20.84 | 157              | 6.08 | 64              | 2.48 | 36                        | 1.39 |

Table 8.28B:- Number of Crop Holders that Owned Local Storage 'Gudguad' by Geographic area.

| Geographic area     | Number of Crop holders that owned |        |               |       |                |      |                  |   |                 |      |                           |      |
|---------------------|-----------------------------------|--------|---------------|-------|----------------|------|------------------|---|-----------------|------|---------------------------|------|
|                     | No 'Gudguad'                      |        | One 'Gudguad' |       | Two 'Gudguads' |      | Three 'Gudguads' |   | Four 'Gudguads' |      | Five and above 'Gudguads' |      |
|                     | Holders                           | %      | Holders       | %     | Holders        | %    | Holders          | % | Holders         | %    | Holders                   | %    |
| Afar Region .....   | 12,211                            | 87.41  | 1,537         | 11.00 | 208            | 1.49 | -                | - | 5               | 0.04 | 9                         | 0.06 |
| Zone 1 .....        | 8,076                             | 98.43  | 129           | 1.57  | -              | -    | -                | - | -               | -    | -                         | -    |
| Dubti .....         | 1,478                             | 99.46  | 8             | 0.54  | -              | -    | -                | - | -               | -    | -                         | -    |
| Asayita .....       | 4,223                             | 99.88  | 5             | 0.12  | -              | -    | -                | - | -               | -    | -                         | -    |
| Afambo .....        | 2,374                             | 95.30  | 117           | 4.70  | -              | -    | -                | - | -               | -    | -                         | -    |
| Zone 3 .....        | 4,135                             | 71.73  | 1,408         | 24.42 | 208            | 3.61 | -                | - | 5               | 0.09 | 9                         | 0.16 |
| Amibara .....       | 1,771                             | 100.00 | -             | -     | -              | -    | -                | - | -               | -    | -                         | -    |
| Awash Fentale ..... | 1,404                             | 99.36  | -             | -     | -              | -    | -                | - | -               | -    | 9                         | 0.64 |
| Argoba Liyu .....   | 961                               | 37.22  | 1,408         | 54.53 | 208            | 8.06 | -                | - | 5               | 0.19 | -                         | -    |



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

Annex Tables 8.1-8.3

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,<br>Farm animals and Storage<br>facilities | Number of Holders |        |       | Number of Implements, Equipment,<br>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.....  | 9,359             | 375.33 | 4.01  | 17,580  | 2,944.00 | 16.75 | 161,295     | 987,029.21    | 6.12  |
| 'Gejeras' .....  | 3,994             | 162.31 | 4.06  | 5,098   | 197.49   | 3.87  | 102,017     | 495,824.64    | 4.86  |
| Shovels .....  | 8,170             | 314.35 | 3.85  | 10,732  | 444.58   | 4.14  | 153,788     | 627,418.92    | 4.08  |
| Used for Cultivation   |                   |        |       |   |          |       |             |               |       |
| Hoes.....  | 865               | 99.22  | 11.47 | 979   | 120.51   | 12.30 | 17,087      | 241,370.40    | 14.13 |
| 'Mekeskeshas' .....  | 707               | 69.74  | 9.87  | 814   | 82.73    | 10.16 | 11,904      | 129,828.81    | 10.91 |
| Pick Axes .....  | 4,051             | 170.74 | 4.22  | 7,276   | 359.39   | 4.94  | 71,116      | 413,402.33    | 5.81  |
| Tractors .....   | -                 | -      | -     | -   | -        | -     | -           | -             | -     |
| Parts for traditional Plough                                     |                   |        |       |   |          |       |             |               |       |
| 'Degers' .....   | 5,956             | 300.38 | 5.04  | 8,950   | 587.00   | 6.56  | 35,088      | 327,441.94    | 9.33  |
| 'Erfes' (Handle) .....   | 5,855             | 302.26 | 5.16  | 7,851   | 871.18   | 11.10 | 22,703      | 284,532.04    | 12.53 |
| Plough-Beams .....   | 6,088             | 335.57 | 5.51  | 7,406   | 427.05   | 5.77  | 86,123      | 549,154.06    | 6.38  |
| Plough -Tips (Metal) .....                                       | 6,086             | 319.99 | 5.26  | 7,212   | 392.84   | 5.45  | 138,155     | 931,578.48    | 6.74  |
| 'Wegel' -Tips .....  | 6,033             | 321.83 | 5.33  | 7,179   | 503.86   | 7.02  | 58,181      | 502,469.74    | 8.64  |
| Yokes .....  | 6,098             | 334.18 | 5.48  | 7,124   | 392.99   | 5.52  | 67,157      | 514,001.54    | 7.65  |
| Used for Harvesting  |                   |        |       |   |          |       |             |               |       |
| Sickles .....  | 8,825             | 298.70 | 3.38  | 14,511  | 515.65   | 3.55  | 120,498     | 603,544.92    | 5.01  |
| Used for Threshing   |                   |        |       |   |          |       |             |               |       |
| Hay-Forks (Metal) .....  | *                 | *      | *     | *   | *        | *     | *           | *             | *     |
| Hay-Forks (Wood) .....   | 846               | 46.98  | 5.55  | 1,271   | 91.26    | 7.18  | 2,916       | 26,583.15     | 9.12  |
| Threshing Sticks.....  | 164               | 37.72  | 22.95 | 425   | 77.03    | 18.14 | 343         | 7,080.56      | 20.63 |
| Winnowers (Metal) .....  | -                 | -      | -     | -   | -        | -     | -           | -             | -     |
| Winnowers (Wood) .....   | 687               | 47.78  | 6.95  | 774   | 55.86    | 7.22  | 6,327       | 59,362.18     | 9.38  |
| Other Farm Equipment   |                   |        |       |   |          |       |             |               |       |
| Carts (Hauling) .....  | 69                | 22.13  | 31.85 | 89  | 23.68    | 26.57 | 101,010     | 1,669,402.46  | 16.53 |
| Sprayers (Hand Operated) ..                                      | 156               | 20.07  | 12.90 | 198   | 21.58    | 10.88 | 67,961      | 356,460.60    | 5.25  |
| Sprayers (Power Operated) .                                      | -                 | -      | -     | -   | -        | -     | -           | -             | -     |
| Tying Tools .....  | -                 | -      | -     | -   | -        | -     | -           | -             | -     |
| Wheelbarrows .....   | 66                | 29.39  | 44.46 | 79  | 29.39    | 37.28 | *           | *             | *     |
| Animals Used for Ploughing                                       |                   |        |       |   |          |       |             |               |       |
| Asses .....  | *                 | *      | *     | *   | *        | *     | *           | *             | *     |
| Camels.....  | -                 | -      | -     | -   | -        | -     | -           | -             | -     |
| Horses.....  | -                 | -      | -     | -   | -        | -     | -           | -             | -     |
| Mules.....   | -                 | -      | -     | -   | -        | -     | -           | -             | -     |
| Oxen .....   | 5,073             | 212.13 | 4.18  | 9,661   | 411.03   | 4.25  | 7,159,864   | 31,853,767.44 | 4.45  |
| AnimalsUsed for Threshing  |                   |        |       |   |          |       |             |               |       |
| Asses .....  | 2,012             | 88.76  | 4.41  | 2,971   | 168.28   | 5.66  | 723,821     | 4,039,583.16  | 5.58  |
| Camels.....  | 2,390             | 179.47 | 7.51  | 3,383   | 264.81   | 7.83  | 3,354,950   | 24,833,963.16 | 7.40  |
| Cattle .....   | 5,006             | 210.31 | 4.20  | 12,380  | 658.08   | 5.32  | 8,270,657   | 38,024,264.00 | 4.60  |
| Horses.....  | 20                | 7.18   | 35.14 | 33  | 7.18     | 21.65 | 18,487      | 179,565.45    | 9.71  |
| Mules .....  | 127               | 25.95  | 20.43 | 167   | 46.50    | 27.85 | 238,053     | 9,110,948.44  | 38.27 |
| Storage Structure  |                   |        |       |   |          |       |             |               |       |
| 'Debignits'.....   | 676               | 37.19  | 5.50  | 1,165   | 82.49    | 7.08  | 2,574       | 26,318.85     | 10.22 |
| 'Gotteras' .....   | 1,658             | 46.92  | 2.83  | 2,860   | 111.74   | 3.91  | 30,365      | 154,714.76    | 5.10  |
| 'Gudguads' .....   | 1,759             | 85.98  | 4.89  | 2,017   | 95.81    | 4.75  | 81,243      | 425,180.45    | 5.23  |
| Modern Storages .....  | -                 | -      | -     | -   | -        | -     | -           | -             | -     |

ANNEX TABLE 8.2:- Standard Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Zone 1.

[illegible]

ANNEX TABLE 8.3:- Standard Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Zone 3.

| Implements, Equipment,<br>Farm animals and Storage<br>facilities | Number of Holders |       |       | Number of Implements,<br>Equipment, Farm animals and<br>Storages |        |       | Total Value |               |       |
|--|-------------------|-------|-------|--|--------|-------|-------------|---------------|-------|
|  | Reporting         | S.E   | C.V   | Reported   | S.E    | C.V   | (Birr)      | S.E           | C.V   |
|  |                   |       |       |  |        |       |             |               |       |
| Used for Clearing Land   |                   |       |       |  |        |       |             |               |       |
| Axes.....  | 3,717             | 28.26 | 0.76  | 7,447  | 137.32 | 1.84  | 62,825      | 85,602.01     | 1.36  |
| 'Gejeras'.....   | 1,912             | 14.18 | 0.74  | 2,585  | 14.18  | 0.55  | 48,893      | 26,249.02     | 0.54  |
| Shovels.....   | 2,684             | 51.13 | 1.91  | 3,386  | 63.19  | 1.87  | 55,919      | 61,478.60     | 1.10  |
| Used for Cultivation   |                   |       |       |  |        |       |             |               |       |
| Hoes.....  | 83                | 10.06 | 12.13 | 83   | 10.06  | 12.13 | 2,652       | 49,478.96     | 18.65 |
| 'Mekeskeshas'.....   | 40                | 11.09 | 27.83 | 53   | 11.09  | 21.08 | 963         | 25,611.65     | 26.61 |
| Pick Axes.....   | 2,234             | 46.88 | 2.10  | 3,985  | 110.97 | 2.78  | 31,047      | 79,064.73     | 2.55  |
| Tractors.....  | -                 | -     | -     | -  | -      | -     | -           | -             | -     |
| Parts for traditional Plough                                     |                   |       |       |  |        |       |             |               |       |
| 'Degers'.....  | 2,323             | 40.68 | 1.75  | 3,127  | 76.40  | 2.44  | 8,218       | 22,744.77     | 2.77  |
| 'Erfes' (Handle).....  | 2,268             | 41.27 | 1.82  | 3,040  | 85.38  | 2.81  | 5,248       | 13,258.86     | 2.53  |
| Plough-Beams.....  | 2,325             | 42.31 | 1.82  | 3,026  | 78.19  | 2.58  | 31,716      | 100,427.95    | 3.17  |
| Plough -Tips (Metal).....  | 2,333             | 41.69 | 1.79  | 2,837  | 79.31  | 2.80  | 40,902      | 109,702.34    | 2.68  |
| 'Wegel' -Tips.....   | 2,314             | 41.02 | 1.77  | 2,729  | 64.57  | 2.37  | 13,407      | 34,900.45     | 2.60  |
| Yokes.....   | 2,339             | 40.64 | 1.74  | 2,814  | 66.61  | 2.37  | 20,191      | 51,537.25     | 2.55  |
| Used for Harvesting  |                   |       |       |  |        |       |             |               |       |
| Sickles.....   | 3,627             | 33.29 | 0.92  | 6,972  | 146.11 | 2.10  | 51,000      | 89,467.62     | 1.75  |
| Used for Threshing   |                   |       |       |  |        |       |             |               |       |
| Hay-Forks (Metal).....   | *                 | *     | *     | *  | *      | *     | *           | *             | *     |
| Hay-Forks (Wood).....  | 818               | 45.72 | 5.59  | 1,235  | 90.04  | 7.29  | 2,875       | 26,481.01     | 9.21  |
| Threshing Sticks.....  | 65                | 14.05 | 21.63 | 303  | 64.96  | 21.43 | 176         | 4,375.89      | 24.87 |
| Winnowers (Metal).....   | -                 | -     | -     | -  | -      | -     | -           | -             | -     |
| Winnowers (Wood).....  | 687               | 47.78 | 6.95  | 774  | 55.86  | 7.22  | 6,327       | 59,362.18     | 9.38  |
| Other Farm Equipment   |                   |       |       |  |        |       |             |               |       |
| Carts (Hauling).....   | 13                | -     | -     | 25   | -      | -     | 63,700      | -             | -     |
| Sprayers (Hand Operated)...                                      | 119               | 15.08 | 12.69 | 162  | 17.04  | 10.55 | 67,629      | 356,207.08    | 5.27  |
| Sprayers (Power Operated)...                                     | -                 | -     | -     | -  | -      | -     | -           | -             | -     |
| Tying Tools.....   | -                 | -     | -     | -  | -      | -     | -           | -             | -     |
| Wheelbarrows.....  | 32                | 7.18  | 22.62 | 45   | 7.18   | 16.14 | 6,896       | 215,478.54    | 31.25 |
| Animals Used for Ploughing                                       |                   |       |       |  |        |       |             |               |       |
| Asses.....   | *                 | *     | *     | *  | *      | *     | *           | *             | *     |
| Camels.....  | -                 | -     | -     | -  | -      | -     | -           | -             | -     |
| Horses.....  | -                 | -     | -     | -  | -      | -     | -           | -             | -     |
| Mules.....   | -                 | -     | -     | -  | -      | -     | -           | -             | -     |
| Oxen.....  | 2,213             | 42.57 | 1.92  | 4,215  | 121.40 | 2.88  | 3,212,434   | 10,025,973.78 | 3.12  |
| AnimalsUsed for Threshing  |                   |       |       |  |        |       |             |               |       |
| Asses.....   | 1,652             | 54.18 | 3.28  | 2,273  | 81.97  | 3.61  | 544,919     | 1,867,962.65  | 3.43  |
| Camels.....  | 418               | 23.11 | 5.53  | 792  | 125.25 | 15.81 | 685,953     | 9,914,799.14  | 14.45 |
| Cattle.....  | 2,306             | 40.27 | 1.75  | 6,473  | 232.64 | 3.59  | 4,153,080   | 13,937,915.15 | 3.36  |
| Horses.....  | 20                | 7.18  | 35.14 | 33   | 7.18   | 21.65 | 18,487      | 179,565.45    | 9.71  |
| Mules.....   | 83                | 15.72 | 19.03 | 83   | 15.72  | 19.03 | 69,630      | 1,465,470.30  | 21.05 |
| Storage Structure  |                   |       |       |  |        |       |             |               |       |
| 'Debignits'.....   | 676               | 37.19 | 5.50  | 1,165  | 82.49  | 7.08  | 2,574       | 26,318.85     | 10.22 |
| 'Gotteras'.....  | 1,658             | 46.92 | 2.83  | 2,860  | 111.74 | 3.91  | 30,365      | 154,714.76    | 5.10  |
| 'Gudguads'.....  | 1,629             | 50.99 | 3.13  | 1,887  | 66.24  | 3.51  | 76,475      | 335,537.16    | 4.39  |
| Modern Storages.....   | -                 | -     | -     | -  | -      | -     | -           | -             | -     |