

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. Seeding 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 assessments, evaluation and formulation of programmes and policies in the sector. 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 were not collected in Ethiopia and much is not 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. Replacement value is the amount it would cost to replace farm implements, equipment, draught animals and storage facilities 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 at zonal and wereda levels are also given as Table series 8.1A- 8.34A and 8.1B-8.34B. 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 Tables.

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 Implements 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 (straw). '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 the region. In this report farm implements are grouped in terms of their operation and this can help to make appropriate comparisons.

3.1 Farm Implements and Tools

The data in Summary Table VIII.1 indicates that the number of holders reporting axe was the highest followed by shovel and 'Gejera'(Chopper). In Tigray Region it is estimated that there were about 671,737 crop holders in rural areas of which about 481,318(71.65%) reported to own axes, about 43.30% reporting shovels, and 42.26% 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 the highest followed by 'Gejeras' and shovels. The expected duration of service of an axe and 'Gejera' was estimated to be 12 years each, while for shovel it was 10 years.

One of the labour and power intensive farm activities is cultivation. It comprises digging, ploughing, sowing and weeding. In order to accomplish such operations, the Ethiopian peasants use hoe, 'Mekeskesha', pick-axe, and traditional plough. Among these farm implements and tools in Tigray region pick-axe was the highest in terms of number of holders reporting, total number of implements reported and total value. The second highest was 'Mekeskesha' while hoe was the lowest.

The data in Summary Table VIII.4 revealed that the percentage distributions of the number of crop holders that owned one, two, three, four and five and above pick-axe were 39.44%, 8.34%, 2.22%, 0.72% and 0.40% respectively. On the other hand the percentage distributions of the number of crop holders that did not own hoe, 'Mekeskesha', pick-axe and tractor were 91.41%, 86.87%, 48.88% and 100% respectively. It is also shown that sickle is reported as the only harvesting tool. For details, see Summary Table VIII.1.

3.2 Draught Animals

Peasants in Ethiopia use domestic animals for draught purposes. In several parts of the country since most of the 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 643.5 million Birr. The second highest used for ploughing was ass. The table also

indicates that the average number of oxen per holder was 1.26, which shows serious scarcity of oxen in the region. About 487,143 holders (72.52% of the total rural agricultural crop holders in the region) reported 1,162,895 cattle (working age cattle) used for threshing and these cattle had a total value of over 823.6 million Birr and the average replacement value of a working age cattle was about 318.03 Birr. It was also indicated that significant number of asses and Camels were used by the holders for transportation.

The estimated number and percentage distributions of crop holders that owned implements, equipment and draught animal are shown in Summary Table VIII.4. The census result shows that there were about 671,737 rural crop holders in Tigray region. Among these 31.58%, 33.05%, 3.62%, 2.01% and 0.5% of the holders owned one, two, three, four and five and above oxen respectively. On the hand about 29.24% 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 'Debignit' was reported by the highest number of holders. The second highest storage facility reported was 'Gottera' and the third was Gudguad. On the other hand, Modern Storage was reported by insignificant number of holders. The total value of all reported storage facilities was assessed to be 24,492,402 Birr, of which 54.4% and 41.68% comprises of Debigint and Gottera, respectively. The percentage distributions of the number of crop holders that owned 'Debigint' and 'Gottera' are 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 Service of Implement, for Private holdings.

Implements and Equipment	Number of Holders Reporting	Percent of Total Holders Reporting	Number of Implements and Equipment		Total Value of Imp. & Eq. (Birr)	Average Replacement Value Per Imp. & Eq. (Birr)	Average Duration of Service of Imp. & Eq. (Years)
			Total Reported	#Average Per Holder			
Used for Clearing Land							
Axes.....	481,318	71.65	715,388	1.06	8,779,927	8.47	12
'Gejeras' (Choppers).....	283,849	42.26	317,408	0.47	3,949,718	11.14	12
Shovels	290,835	43.30	310,158	0.46	3,767,765	11.41	10
Used for Cultivation							
Hoes.....	57,671	8.59	72,753	0.11	810,516	9.58	10
'Mekeskeshas'	88,223	13.13	148,712	0.22	890,892	4.11	5
Pick-Axes.....	343,376	51.12	458,163	0.68	4,329,010	7.71	8
Tractors.....	-	-	-	-	-	-	-
Parts for traditional Plough							
'Degers'	531,360	79.10	1,350,149	2.01	4,272,091	1.32	1
'Erfes'	529,977	78.90	1,034,078	1.54	4,608,222	2.37	2
Plow-beams	536,480	79.86	876,036	1.30	15,058,688	10.93	7
Plow- tips	535,927	79.78	682,770	1.02	18,685,929	21.51	5
'Wegel' – tips	530,386	78.96	719,884	1.07	4,210,038	4.38	3
Yokes	531,578	79.13	734,456	1.09	9,112,985	9.33	8
Used for Harvesting							
Sickles.....	589,958	87.83	1,396,916	2.08	11,109,346	3.60	5
Used for Threshing							
Hay-Forks (metal)	6,621	0.99	9,845	0.01	100,422	7.64	9
Hay-Forks (wood).....	464,284	69.12	883,446	1.32	5,284,671	3.17	5
Threshing Sticks	60,233	8.97	113,046	0.17	324,870	1.77	2
Winnowers (metal).....	3,703	0.55	4,027	0.01	48,784	11.13	10
Winnowers (wood).....	112,031	16.68	130,588	0.19	1,461,764	9.86	11
Other farm Equipment							
Carts	1,097	0.16	1,207	0.00	2,025,109	1,657.08	17
Sprayers (Hand operated)	3,096	0.46	5,468	0.01	60,010	7.60	5
Sprayers (Power operated) ...	*		*	*	*	*	*
Tying Tools.....	-	-	-	-	-	-	-
Wheelbarrows	799	0.12	872	0.00	112,450	127.53	18

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

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

SUMMARY TABLE VIII.2:-Number and Percentage of Holders Reporting Draught Animals, Quantity Reported, Replacement Value, and Duration of Service of Implement, for Private Holdings.

Animals	Number of Holders Reporting	Percent of Total Holders Reporting	Number of Animals		Total Value of Animals (Birr)	Average Replacement Value Per Animal (Birr)	Average Age of Animal (Years)
			Total Reported	#Average Per Holder			
Used for Ploughing							
Asses	3,085	0.46	3,743	0.01	1,817,973	364.55	8
Camels	514	0.08	539	0.00	907,200	1,636.36	11
Horses	*	-	*	*	*	*	*
Mules	151	0.02	*	*	*	*	10
Oxen	475,321	70.76	844,845	1.26	643,505,551	447.67	8
Used for Threshing or Transportation							
Asses	224,091	33.36	293,767	0.44	80,452,942	218.45	8
Camels	10,494	1.56	23,639	0.04	31,380,177	650.64	11
Cattle	487,143	72.52	1,162,895	1.73	823,638,127	318.03	8
Horses	1,138	0.17	1,290	0.00	595,014	423.71	10
Mules	5,030	0.75	6,024	0.01	5,822,048	809.84	10

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

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

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

Storage Structure	Number of Holders Reporting	Percent of Total Storage Holders	Number of Storages		Total Value of Storages (Birr)	Average Replacement Value Per Storage (Birr)	Average Storage Capacity Per Storage (Quintal)
			Total Reported	#Average Per Holder			
'Debignits'	407,035	60.59	1,388,697	2.07	13,327,857	2.77	5
'Gotteras'	213,453	31.78	549,341	0.82	10,209,638	8.83	8
'Gudguads'	22,633	3.37	31,182	0.05	912,175	23.52	18
Modern Storage Structures	1,141	0.17	2,785	0.00	42,732	6.95	7

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

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

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

Name of Implement, Equipment, and Draught Animal	Number of Crop holders that owned											
	No Implement, Equipment, and Draught Animal		One Implement, Equipment, and Draught Animal		Two Implements, Equipment, and Draught Animals		Three Implements, Equipment, and Draught Animals		Four Implements, Equipment, and Draught Animals		Five and above Implements, Equipment, and Draught Animals	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Used for Clearing Land												
Axes.....	190,419	28.35	316,419	47.10	131,391	19.56	23,935	3.56	7,071	1.05	2,502	0.37
'Gejera'.....	387,888	57.74	253,126	37.68	28,621	4.26	1,756	0.26	257	0.04	89	0.01
Shovel.....	380,901	56.70	273,463	40.71	16,108	2.40	980	0.15	170	0.03	115	0.02
Used for Cultivation												
Hoes.....	614,067	91.41	46,023	6.85	9,301	1.38	1,562	0.23	539	0.08	245	0.04
'Mekeskeshas'.....	583,513	86.87	49,152	7.32	25,382	3.78	8,795	1.31	3,029	0.45	1,866	0.28
Pick- Axes	328,361	48.88	264,926	39.44	56,000	8.34	14,922	2.22	4,827	0.72	2,701	0.40
Tractors.....	671,737	100.00	-	-	-	-	-	-	-	-	-	-
Parts for traditional Plough												
'Degers'.....	140,377	20.90	149,921	22.32	211,811	31.53	36,050	5.37	90,889	13.53	42,689	6.36
'Erfes' (Handle)	141,760	21.10	222,030	33.05	194,694	28.98	67,658	10.07	29,238	4.35	16,357	2.44
Plough-Beam.	135,257	20.14	288,348	42.93	184,777	27.51	44,451	6.62	13,215	1.97	5,689	0.85
Plough -Tips	135,809	20.22	405,535	60.37	117,807	17.54	10,326	1.54	1,624	0.24	636	0.09
'Wegel' -Tips.....	141,351	21.04	378,997	56.42	128,436	19.12	15,791	2.35	5,181	0.77	1,981	0.29
Yokes.....	140,159	20.87	359,812	53.56	149,049	22.19	16,703	2.49	4,939	0.74	1,075	0.16
Used for Harvesting												
Sickles	81,778	12.17	150,397	22.39	235,452	35.05	112,209	16.70	55,141	8.21	36,760	5.47
Used for Threshing												
Hay-Forks (Metal)	665,116	99.01	4,405	0.66	1,500	0.22	477	0.07	185	0.03	54	0.01
Hay-Forks (Wood)	207,452	30.88	183,620	27.34	187,186	27.87	62,751	9.34	22,043	3.28	8,685	1.29
Threshing Sticks.....	611,504	91.03	27,951	4.16	19,581	2.91	6,977	1.04	4,502	0.67	1,222	0.18
Winnowers (Metal)	668,033	99.45	3,418	0.51	267	0.04	-	-	19	0.00	-	-
Winnowers (Wood)	559,706	83.32	96,881	14.42	12,591	1.87	1,934	0.29	536	0.08	89	0.01
Other Farm Equipment												
Carts	670,641	99.84	1,006	0.15	70	0.01	20	0.00	-	-	-	-
Sprayers (Hand Operated)	668,641	99.54	1,685	0.25	962	0.14	183	0.03	194	0.03	72	0.01
Sprayers (Power Operated)	671,716	100.00	21	0.00	-	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-	-	-	-	-	-
Wheelbarrows	670,938	99.88	761	0.11	20	0.00	-	-	18	0.00	-	-
Animals Used for Ploughing												
Asses.....	668,653	99.54	2,573	0.38	401	0.06	74	0.01	36	0.01	-	-
Camels.....	671,223	99.92	489	0.07	25	0.00	-	-	-	-	-	-
Horses.....	671,713	100.00	-	-	24	0.00	-	-	-	-	-	-
Mules.....	671,586	99.98	59	0.01	68	0.01	24	0.00	-	-	-	-
Oxen	196,416	29.24	212,166	31.58	221,998	33.05	24,296	3.62	13,506	2.01	3,355	0.50
Animals Used for Threshing or Transportation												
Asses.....	447,646	66.64	174,425	25.97	41,573	6.19	6,594	0.98	820	0.12	679	0.10
Camels.....	661,243	98.44	5,931	0.88	1,668	0.25	985	0.15	642	0.10	1,268	0.19
Cattle	184,594	27.48	159,136	23.69	181,882	27.08	69,510	10.35	41,845	6.23	34,770	5.18
Horses.....	670,599	99.83	1,025	0.15	93	0.01	-	-	20	0.00	-	-
Mules.....	666,706	99.25	4,331	0.64	506	0.08	126	0.02	36	0.01	32	0.00
Storage Structure												
'Debignits'.....	264,702	39.41	61,201	9.11	105,883	15.76	88,456	13.17	61,878	9.21	89,617	13.34
'Gotteras'.....	458,285	68.22	65,499	9.75	62,959	9.37	40,787	6.07	21,549	3.21	22,658	3.37
'Gudguads'.....	649,104	96.63	17,832	2.65	3,375	0.50	646	0.10	267	0.04	513	0.08
Modern Storages	670,595	99.83	384	0.06	324	0.05	184	0.03	156	0.02	94	0.01

STATISTICAL TABLES PRESENTING THE CENSUS
RESULTS AT
ZONAL AND WOREDA LEVELS

Tables 8.1A- 8.34A

TABLE 8.1A: - Number of Holders Reporting Axe Owned, Quantity Reported, Replacement Value, and Duration of Service of Implement, 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)
Tigray Region	671,737	481,318	715,388	1.06	8,779,927	8.47	12
West Tigray Zone	166,544	140,348	211,374	1.27	3,594,307	11.55	11
Kafta	10,056	9,114	17,400	1.73	277,089	8.71	10
Tahtay Adiyabo	15,775	13,876	20,931	1.33	405,443	13.02	13
Laelay Adiyabo	20,677	17,059	23,997	1.16	449,795	14.03	14
Tahtay Koraro	13,471	10,768	15,906	1.18	258,702	10.96	13
Medebay Zana	22,348	17,399	25,539	1.14	319,403	8.30	12
Asegede Tsimbela	20,570	18,265	25,752	1.25	431,413	11.80	10
Tselemti	27,248	21,447	31,414	1.15	431,257	10.70	10
Welkait.....	21,875	19,073	30,545	1.40	617,306	12.56	9
Tsegede.....	14,525	13,346	19,889	1.37	403,900	13.64	13
Central Tigray Zone	215,944	156,480	243,492	1.13	2,599,341	7.07	13
Mereb Lehe.....	18,067	15,267	26,295	1.46	372,486	8.63	14
Ahiferom.....	33,102	22,024	38,300	1.16	400,820	7.23	12
Werie Lehe	26,501	20,023	30,765	1.16	349,473	7.21	15
Adwa.....	23,097	16,691	25,988	1.13	315,983	7.75	14
Laelay Maychew	14,111	9,827	16,725	1.19	156,651	6.09	14
Tahtay Maychew	17,434	11,332	14,499	0.83	140,894	7.43	12
Naeder Adet.....	21,093	13,538	18,340	0.87	162,880	6.47	18
Kola Temben	26,373	20,101	28,806	1.09	257,128	6.35	12
Degua Temben.....	21,674	15,666	24,101	1.11	224,383	6.05	10
Tanqu Abergele	14,492	12,010	19,675	1.36	218,643	7.02	11
East Tigray Zone	118,426	68,481	87,559	0.74	1,173,225	10.84	10
Gulumahada.....	15,512	7,975	10,684	0.69	147,771	10.29	13
Erob.....	3,581	2,595	3,370	0.94	87,107	20.46	8
Saesi Tsaedamba	23,698	13,710	16,557	0.70	214,134	11.07	7
Ganta Afeshum.....	20,201	10,721	12,212	0.60	176,876	13.12	10
Hawzen	20,539	11,408	14,234	0.69	213,273	12.43	11
Wukro	14,563	8,392	11,618	0.80	101,197	6.66	14
Atsbi Wenberta	20,332	13,681	18,885	0.93	232,867	9.11	7
South Tigray Zone.....	170,821	116,008	172,963	1.01	1,413,054	5.46	11
Seharte Samre.....	22,394	16,242	26,852	1.20	183,067	4.88	12
Enderta.....	21,353	13,334	18,894	0.88	128,452	4.80	13
Hintalo Wajirat	27,944	17,721	24,363	0.87	261,607	7.71	10
Ambalage.....	19,962	11,621	17,593	0.88	131,268	5.73	13
Endamehoni.....	16,810	11,109	20,398	1.21	205,025	4.68	12
Rayaazebo.....	19,926	15,448	26,009	1.31	242,360	5.46	10
Alamata.....	14,537	10,638	14,374	0.99	121,035	6.01	9
Wofla	27,895	19,896	24,480	0.88	140,239	4.49	12

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)
Tigray Region	671,206	283,687	317,247	0.47	3,945,102	11.13	12
West Tigray Zone	166,544	82,956	95,240	0.57	1,492,943	13.61	11
Kafta	10,056	2,052	2,593	0.26	39,622	12.05	11
Tahtay Adiyabo	15,775	3,894	4,126	0.26	52,083	12.08	14
Laelay Adiyabo	20,677	9,627	10,390	0.50	167,373	14.94	12
Tahtay Koraro	13,471	6,293	7,231	0.54	86,930	10.44	11
Medebay Zana	22,348	14,711	16,982	0.76	201,264	10.40	11
Asegede Tsimbela	20,570	9,562	11,840	0.58	197,816	13.34	11
Tselemti	27,248	19,715	22,860	0.84	415,435	15.65	10
Welkait	21,875	11,531	13,156	0.60	237,511	15.61	8
Tsegede	14,525	5,570	6,062	0.42	94,910	14.33	10
Central Tigray Zone	215,944	110,501	124,383	0.58	1,244,150	9.06	13
Mereb Lehe	18,067	12,142	13,475	0.75	163,561	10.91	12
Ahiferom	33,102	17,074	18,615	0.56	168,736	9.62	12
Werie Lehe	26,501	12,305	13,403	0.51	120,703	8.30	16
Adwa	23,097	10,848	12,708	0.55	136,742	9.30	14
Laelay Maychew	14,111	7,505	8,411	0.60	84,054	8.84	14
Tahtay Maychew	17,434	6,505	6,985	0.40	60,442	8.06	11
Naeder Adet	21,093	14,469	16,596	0.79	188,619	9.94	19
Kola Temben	26,373	13,919	16,606	0.63	158,182	7.93	14
Degua Temben	21,674	5,984	6,355	0.29	50,048	7.38	10
Tanqu Abergele	14,492	9,750	11,228	0.77	113,065	8.63	10
East Tigray Zone	117,896	14,526	15,616	0.13	173,406	10.26	12
Gulumahada	15,512	2,675	2,962	0.19	31,494	9.91	14
Erob	3,581	129	139	0.04	2,210	15.56	11
Saesi Tsaedamba	23,698	2,124	2,188	0.09	27,915	11.74	8
Ganta Afeshum	20,201	6,995	7,666	0.38	79,933	9.35	12
Hawzen	20,008	506	547	0.03	9,491	16.82	14
Wukro	14,563	1,809	1,828	0.13	18,634	10.06	17
Atsbi Wenberta	20,332	287	287	0.01	3,729	12.99	9
South Tigray Zone	170,821	75,704	82,007	0.48	1,034,603	11.55	10
Seharte Samre	22,394	8,202	9,176	0.41	93,637	9.02	12
Enderta	21,353	3,134	3,260	0.15	35,513	10.39	16
Hintalo Wajirat	27,944	10,223	11,108	0.40	162,562	13.62	9
Ambalage	19,962	11,313	12,539	0.63	128,047	9.12	10
Endamehoni	16,810	8,256	8,717	0.52	100,990	10.99	10
Rayaaazebo	19,926	9,822	10,868	0.55	233,397	19.21	8
Alamata	14,537	9,395	10,290	0.71	133,060	11.53	8
Wofla	27,895	15,360	16,050	0.58	147,396	8.81	12

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)
Tigray Region	671,737	290,835	310,158	0.46	3,767,765	11.41	10
West Tigray Zone	166,544	74,908	80,865	0.49	1,141,187	13.13	10
Kafta	10,056	3,580	4,336	0.43	72,225	13.73	11
Tahtay Adiyabo	15,775	11,408	12,810	0.81	193,115	13.40	11
Laelay Adiyabo	20,677	11,470	11,973	0.58	191,160	15.33	11
Tahtay Koraro	13,471	6,463	7,079	0.53	98,631	12.79	9
Medebay Zana	22,348	13,761	14,615	0.65	167,894	10.83	10
Asegede Tsimbela	20,570	12,118	13,322	0.65	200,074	13.88	10
Tselemti	27,248	7,384	7,870	0.29	98,223	12.05	10
Welkait	21,875	5,149	5,179	0.24	72,544	13.95	9
Tsegede	14,525	3,575	3,680	0.25	47,322	12.62	10
Central Tigray Zone	215,944	102,752	109,112	0.51	1,121,969	9.71	11
Mereb Lehe	18,067	9,117	9,343	0.52	107,918	11.24	11
Ahiferom	33,102	14,263	14,832	0.45	170,642	11.11	10
Werie Lehe	26,501	13,566	14,875	0.56	131,014	8.06	13
Adwa	23,097	11,639	12,335	0.53	156,793	12.02	10
Laelay Maychew	14,111	7,646	8,090	0.57	86,791	10.24	11
Tahtay Maychew	17,434	9,084	9,554	0.55	87,084	8.61	10
Naeder Adet	21,093	11,284	12,083	0.57	116,841	8.93	15
Kola Temben	26,373	12,685	13,853	0.53	115,079	7.66	10
Degua Temben	21,674	6,036	6,373	0.29	65,015	9.64	10
Tanqu Abergele	14,492	7,431	7,772	0.54	84,793	10.47	11
East Tigray Zone	118,426	58,638	62,828	0.53	887,859	13.25	8
Gulumahada	15,512	7,579	8,036	0.52	117,805	13.51	10
Erob	3,581	2,311	2,404	0.67	46,363	18.58	6
Saesi Tsacedamba	23,698	12,969	13,767	0.58	210,879	14.46	6
Ganta Afeshum	20,201	10,194	10,941	0.54	118,099	10.12	8
Hawzen	20,539	11,318	12,661	0.62	200,481	14.61	9
Wukro	14,563	5,590	5,817	0.40	63,695	10.44	10
Atsbi Wenberta	20,332	8,677	9,202	0.45	130,538	13.41	7
South Tigray Zone	170,821	54,537	57,353	0.34	616,750	10.22	10
Seharte Samre	22,394	9,968	10,726	0.48	78,185	6.78	10
Enderta	21,353	8,709	9,010	0.42	85,121	9.08	9
Hintalo Wajirat	27,944	7,164	7,750	0.28	92,648	11.16	8
Ambalage	19,962	4,102	4,173	0.21	43,089	10.14	14
Endamehoni	16,810	3,770	3,839	0.23	43,477	11.10	11
Rayaaazebo	19,926	7,655	8,026	0.40	127,527	15.20	10
Alamata	14,537	5,089	5,359	0.37	75,405	13.24	10
Wofla	27,895	8,081	8,470	0.30	71,298	7.94	12

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)
Tigray Region	671,737	57,671	72,753	0.11	810,516	9.58	10
West Tigray Zone	166,544	23,469	29,275	0.18	330,053	9.69	8
Kafta	10,056	1,899	2,110	0.21	42,801	18.65	15
Tahtay Adiyabo	15,775	608	626	0.04	8,451	12.90	9
Laelay Adiyabo	20,677	3,571	4,165	0.20	55,638	12.20	7
Tahtay Koraro	13,471	2,365	3,377	0.25	31,838	7.58	8
Medebay Zana	22,348	2,462	3,020	0.14	25,987	7.20	11
Asegede Tsimbela	20,570	4,055	5,691	0.28	46,388	6.65	7
Tselemti	27,248	4,462	5,426	0.20	45,889	7.19	6
Welkait	21,875	2,706	3,304	0.15	51,791	12.75	9
Tsegede	14,525	1,341	1,556	0.11	21,270	12.33	9
Central Tigray Zone	215,944	18,263	24,840	0.12	223,625	7.10	9
Mereb Lehe	18,067	2,867	3,657	0.20	43,873	9.33	12
Ahiferom	33,102	*	*	*	*	*	*
Werie Lehe	26,501	410	495	0.02	13,746	26.34	14
Adwa	23,097	1,139	1,767	0.08	29,905	11.73	18
Laelay Maychew	14,111	264	282	0.02	3,177	11.07	10
Tahtay Maychew	17,434	1,571	2,809	0.16	16,343	3.47	5
Naeder Adet	21,093	377	431	0.02	3,522	6.91	9
Kola Temben	26,373	5,724	8,057	0.31	63,281	6.18	7
Degua Temben	21,674	2,722	3,417	0.16	21,025	5.18	7
Tanqu Abergele	14,492	3,040	3,743	0.26	25,599	5.93	10
East Tigray Zone	118,426	5,038	6,335	0.05	113,018	16.05	11
Gulumahada	15,512	1,341	1,554	0.10	27,689	16.97	12
Erob	3,581	100	100	0.03	1,856	18.56	6
Saesi Tsaedamba	23,698	1,184	*	*	36,118	*	7
Ganta Afeshum	20,201	1,404	1,963	0.10	*	*	11
Hawzen	20,539	691	897	0.04	13,493	13.01	11
Wukro	14,563	264	264	0.02	4,810	18.22	16
Atsbi Wenberta	20,332	*	*	*	*	*	*
South Tigray Zone	170,821	10,901	12,304	0.07	143,821	10.98	13
Seharte Samre	22,394	1,554	2,299	0.10	18,229	6.80	10
Enderta	21,353	1,074	1,131	0.05	33,312	29.09	*
Hintalo Wajirat	27,944	1,417	1,417	0.05	20,857	14.72	11
Ambalage	19,962	498	521	0.03	4,012	7.48	7
Endamehoni	16,810	468	610	0.04	7,498	10.14	9
Rayaaazebo	19,926	3,713	4,032	0.20	38,749	8.80	13
Alamata	14,537	1,037	1,075	0.07	7,831	7.02	10
Wofla	27,895	1,140	1,219	0.04	13,334	10.37	9

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)
Tigray Region	671,737	88,223	148,712	0.22	890,892	4.11	5
West Tigray Zone	166,544	27,363	48,834	0.29	333,824	4.50	5
Kafta	10,056	1,552	2,452	0.24	21,732	6.36	6
Tahtay Adiyabo	15,775	2,733	3,110	0.20	23,887	7.00	7
Laelay Adiyabo	20,677	3,983	6,671	0.32	46,728	4.96	3
Tahtay Koraro	13,471	4,358	10,134	0.75	62,641	3.37	5
Medebay Zana	22,348	4,937	10,558	0.47	80,769	4.59	4
Asegede Tsimbela	20,570	5,780	10,306	0.50	50,498	3.00	4
Tselemti	27,248	3,178	4,518	0.17	34,772	5.56	5
Welkait	21,875	*	*	-	*	*	*
Tsegede	14,525	*	*	-	*	*	*
Central Tigray Zone	215,944	25,816	45,484	0.21	235,827	3.47	6
Mereb Lehe	18,067	2,418	3,026	0.17	18,594	5.07	6
Ahiferom	33,102	2,367	*	-	27,425	*	9
Werie Lehe	26,501	3,640	5,593	0.21	39,496	5.18	7
Adwa	23,097	3,493	4,729	0.20	33,690	5.90	9
Laelay Maychew	14,111	1,036	1,338	0.09	8,073	5.03	5
Tahtay Maychew	17,434	1,923	3,399	0.19	13,609	2.42	4
Naeder Adet	21,093	*	*	-	18,946	*	*
Kola Temben	26,373	5,915	13,459	0.51	43,963	1.64	3
Degua Temben	21,674	1,037	*	-	6,465	*	6
Tanqu Abergele	14,492	2,296	4,833	0.33	25,566	2.69	5
East Tigray Zone	118,426	22,011	34,839	0.29	206,215	4.20	5
Gulumahada	15,512	2,453	3,703	0.24	22,613	4.26	5
Erob	3,581	565	675	0.19	5,547	6.86	5
Saesi Tsaedamba	23,698	6,646	9,677	0.41	69,286	5.40	5
Ganta Afeshum	20,201	1,099	1,417	0.07	11,656	6.75	5
Hawzen	20,539	4,946	8,734	0.43	46,404	3.43	6
Wukro	14,563	3,636	6,353	0.44	25,671	2.65	6
Atsbi Wenberta	20,332	2,665	4,279	0.21	25,038	4.00	5
South Tigray Zone	170,821	13,033	19,555	0.11	115,025	4.49	6
Seharte Samre	22,394	3,517	7,044	0.31	32,254	2.49	5
Enderta	21,353	2,315	3,150	0.15	19,194	4.93	6
Hintalo Wajirat	27,944	1,604	2,571	0.09	15,140	4.44	7
Ambalage	19,962	1,554	2,018	0.10	10,927	4.41	6
Endamehoni	16,810	1,784	2,303	0.14	11,372	3.90	5
Rayaaazebo	19,926	1,554	1,641	0.08	18,044	10.75	8
Alamata	14,537	241	241	0.02	*	*	*
Wofla	27,895	*	*	-	4,369	*	*

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)
Tigray Region	671,737	343,376	458,163	0.68	4,329,010	7.71	8
West Tigray Zone	166,544	89,843	124,907	0.75	1,267,860	8.11	8
Kafta	10,056	3,007	5,011	0.50	63,295	8.92	10
Tahtay Adiyabo	15,775	10,572	11,473	0.73	169,688	13.39	11
Laelay Adiyabo	20,677	9,954	13,144	0.64	179,485	11.34	12
Tahtay Koraro	13,471	6,895	10,797	0.80	99,154	6.69	9
Medebay Zana	22,348	14,308	20,598	0.92	158,515	6.00	7
Asegede Tsimbela	20,570	12,262	15,919	0.77	175,159	9.27	8
Tselemti	27,248	15,161	25,840	0.95	171,440	4.30	5
Welkait	21,875	11,693	15,251	0.70	156,892	8.13	6
Tsegede	14,525	5,991	6,874	0.47	94,232	12.61	10
Central Tigray Zone	215,944	108,031	157,142	0.73	1,169,637	5.71	9
Mereb Lehe	18,067	9,286	9,986	0.55	121,730	11.57	11
Ahiferom	33,102	15,068	21,037	0.64	176,610	6.63	9
Werie Lehe	26,501	11,960	13,625	0.51	104,740	6.91	11
Adwa	23,097	11,616	16,182	0.70	155,631	7.47	10
Laelay Maychew	14,111	7,210	11,717	0.83	94,818	5.61	9
Tahtay Maychew	17,434	7,674	9,347	0.54	68,621	6.31	8
Naeder Adet	21,093	13,127	20,402	0.97	119,748	4.17	9
Kola Temben	26,373	16,227	29,646	1.12	164,310	3.34	5
Degua Temben	21,674	7,105	9,959	0.46	67,432	5.41	8
Tanqu Abergele	14,492	8,756	15,241	1.05	95,997	4.25	7
East Tigray Zone	118,426	57,065	63,291	0.53	897,598	12.87	8
Gulumahada	15,512	7,242	8,175	0.53	107,651	11.88	10
Erob	3,581	2,474	2,756	0.77	56,395	18.29	8
Saesi Tsaedamba	23,698	10,823	11,585	0.49	187,725	15.10	7
Ganta Afeshum	20,201	11,342	12,846	0.64	146,452	10.24	8
Hawzen	20,539	10,100	10,827	0.53	167,613	14.46	8
Wukro	14,563	5,829	6,354	0.44	71,738	10.41	11
Atsbi Wenberta	20,332	9,255	10,748	0.53	160,025	12.84	7
South Tigray Zone	170,821	88,438	112,823	0.66	993,915	7.14	9
Seharte Samre	22,394	10,951	14,784	0.66	78,963	4.01	8
Enderta	21,353	9,438	11,720	0.55	107,153	7.92	10
Hintalo Wajirat	27,944	13,796	18,233	0.65	158,768	7.18	6
Ambalage	19,962	12,297	14,748	0.74	159,520	9.18	8
Endamehoni	16,810	11,491	14,327	0.85	149,194	8.42	9
Rayaaazebo	19,926	6,215	7,693	0.39	93,158	9.64	9
Alamata	14,537	4,553	5,250	0.36	47,428	7.88	9
Wofla	27,895	19,697	26,069	0.93	199,731	5.78	9

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)
Tigray Region	671,737	531,360	1,350,149	2.01	4,272,091	1.32	1
West Tigray Zone	166,544	140,724	329,589	1.98	1,034,492	1.43	1
Kafta	10,056	5,208	7,717	0.77	37,498	3.69	1
Tahtay Adiyabo	15,775	12,884	36,354	2.30	127,716	1.42	1
Laelay Adiyabo	20,677	17,779	45,002	2.18	179,645	1.72	1
Tahtay Koraro	13,471	11,728	38,406	2.85	141,853	1.27	1
Medebay Zana	22,348	18,695	52,895	2.37	147,109	0.99	1
Asegede Tsimbela	20,570	19,064	49,668	2.41	111,287	0.93	1
Tselemti	27,248	24,485	51,653	1.90	151,916	1.51	1
Welkait	21,875	18,058	28,826	1.32	94,191	2.00	1
Tsegede	14,525	12,823	19,069	1.31	43,278	1.62	1
Central Tigray Zone	215,944	169,430	525,796	2.43	1,647,228	1.08	1
Mereb Lehe	18,067	15,022	41,759	2.31	165,661	1.52	1
Ahiferom	33,102	23,318	70,164	2.12	210,195	1.05	1
Werie Lehe	26,501	20,322	84,506	3.19	220,662	0.63	1
Adwa	23,097	18,767	63,636	2.76	235,390	1.19	1
Laelay Maychew	14,111	10,412	32,154	2.28	137,097	1.49	2
Tahtay Maychew	17,434	13,281	31,760	1.82	123,590	1.64	1
Naeder Adet	21,093	16,947	43,805	2.08	121,799	1.21	2
Kola Temben	26,373	21,883	72,930	2.77	210,732	0.90	1
Degua Temben	21,674	16,849	43,174	1.99	98,240	0.96	1
Tanqu Abergele	14,492	12,629	41,907	2.89	123,862	0.93	1
East Tigray Zone	118,426	88,829	212,513	1.79	850,331	1.78	2
Gulumahada	15,512	11,119	23,898	1.54	114,888	2.28	1
Erob	3,581	2,614	5,054	1.41	35,111	3.95	3
Saesi Tsaedamba	23,698	17,841	46,526	1.96	169,215	1.51	2
Ganta Afeshum	20,201	14,990	27,633	1.37	123,756	2.59	2
Hawzen	20,539	15,803	45,146	2.20	163,532	1.33	1
Wukro	14,563	11,136	25,880	1.78	68,154	1.29	2
Atsbi Wenberta	20,332	15,326	38,377	1.89	175,675	1.81	2
South Tigray Zone	170,821	132,377	282,251	1.65	740,040	1.29	1
Seharte Samre	22,394	18,159	50,350	2.25	117,636	0.91	1
Enderta	21,353	16,306	35,148	1.65	111,364	1.61	1
Hintalo Wajirat	27,944	22,235	51,162	1.83	160,988	1.39	1
Ambalage	19,962	14,066	26,631	1.33	60,444	1.21	1
Endamehoni	16,810	11,589	25,153	1.50	51,872	1.02	1
Rayaazebo	19,926	17,026	33,431	1.68	112,994	1.84	1
Alamata	14,537	12,112	23,859	1.64	60,243	1.41	1
Wofla	27,895	20,884	36,517	1.31	64,499	1.02	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)
Tigray Region	671,737	529,977	1,034,078	1.54	4,608,222	2.37	2
West Tigray Zone	166,544	138,873	253,585	1.52	751,127	1.64	1
Kafta	10,056	5,097	6,450	0.64	22,364	2.74	1
Tahtay Adiyabo	15,775	12,732	23,117	1.47	79,577	2.00	2
Laelay Adiyabo	20,677	17,865	35,919	1.74	129,878	1.82	2
Tahtay Koraro	13,471	11,445	26,570	1.97	109,208	1.92	1
Medebay Zana	22,348	18,369	38,632	1.73	103,060	1.26	1
Asegeda Tsimbela	20,570	18,770	39,067	1.90	86,905	1.07	1
Tselemti	27,248	23,893	41,633	1.53	123,449	1.78	1
Welkait	21,875	17,983	25,553	1.17	67,914	1.84	1
Tsegede	14,525	12,718	16,643	1.15	28,774	1.40	1
Central Tigray Zone	215,944	170,480	377,840	1.75	1,476,323	1.79	2
Mereb Lehe	18,067	14,870	29,830	1.65	129,702	2.24	1
Ahiferom	33,102	23,879	55,149	1.67	189,875	1.58	2
Werie Lehe	26,501	20,992	49,409	1.86	190,535	1.75	3
Adwa	23,097	18,576	42,888	1.86	210,878	2.13	2
Laelay Maychew	14,111	10,457	27,167	1.93	182,148	2.49	2
Tahtay Maychew	17,434	13,165	24,239	1.39	86,218	1.90	1
Naeder Adet	21,093	17,050	40,597	1.92	117,341	1.27	3
Kola Temben	26,373	21,927	46,397	1.76	141,326	1.47	2
Degua Temben	21,674	16,894	34,399	1.59	138,423	1.99	3
Tanqu Abergele	14,492	12,672	27,764	1.92	89,877	1.49	2
East Tigray Zone	118,426	87,885	148,930	1.26	1,146,189	4.82	3
Gulumahada	15,512	11,003	19,350	1.25	155,016	4.79	4
Erob	3,581	2,558	3,941	1.10	40,717	6.95	4
Saesi Tsaedamba	23,698	17,373	26,805	1.13	177,733	4.53	3
Ganta Afeshum	20,201	15,025	23,980	1.19	158,653	4.40	4
Hawzen	20,539	15,820	28,272	1.38	274,105	5.88	4
Wukro	14,563	11,040	18,683	1.28	125,500	4.07	4
Atsbi Wenberta	20,332	15,066	27,898	1.37	214,466	4.63	3
South Tigray Zone	170,821	132,738	253,723	1.49	1,234,582	2.51	3
Seharte Samre	22,394	18,501	39,798	1.78	151,427	1.68	2
Enderta	21,353	16,206	27,681	1.30	204,249	4.37	3
Hintalo Wajirat	27,944	22,304	44,428	1.59	279,835	3.17	2
Ambalage	19,962	13,902	24,666	1.24	96,193	2.14	3
Endamehoni	16,810	11,532	20,529	1.22	89,006	2.39	3
Rayaazebo	19,926	16,963	38,445	1.93	184,798	2.13	2
Alamata	14,537	12,219	21,686	1.49	99,222	2.55	2
Wofla	27,895	21,111	36,490	1.31	129,852	1.92	3

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)
Tigray Region	671,737	536,480	876,036	1.30	15,058,688	10.93	7
West Tigray Zone	166,544	141,294	217,574	1.31	2,209,800	6.57	3
Kafta	10,056	5,134	6,537	0.65	88,396	11.17	3
Tahtay Adiyabo	15,775	13,021	19,098	1.21	213,798	7.53	4
Laelay Adiyabo	20,677	18,359	27,536	1.33	345,371	8.41	3
Tahtay Koraro	13,471	11,825	22,309	1.66	289,650	6.82	5
Medebay Zana	22,348	18,733	33,265	1.49	316,734	5.28	4
Asegede Tsimbela	20,570	19,173	34,004	1.65	286,678	4.62	3
Tselemti	27,248	24,375	35,397	1.30	359,839	7.19	3
Welkait	21,875	18,002	23,209	1.06	227,740	7.58	3
Tsegede	14,525	12,672	16,218	1.12	81,594	4.09	2
Central Tigray Zone	215,944	174,326	327,548	1.52	4,468,422	7.31	7
Mereb Lehe	18,067	15,343	27,559	1.53	313,016	6.41	5
Ahiferom	33,102	24,384	42,999	1.30	726,306	10.06	8
Werie Lehe	26,501	21,356	45,087	1.70	552,384	6.19	7
Adwa	23,097	19,124	37,069	1.60	668,654	9.27	9
Laelay Maychew	14,111	10,827	23,478	1.66	506,879	9.55	11
Tahtay Maychew	17,434	13,364	22,992	1.32	260,633	6.63	5
Naeder Adet	21,093	17,257	31,797	1.51	310,775	5.18	7
Kola Temben	26,373	23,085	41,164	1.56	341,045	4.80	4
Degua Temben	21,674	16,813	30,402	1.40	527,302	9.51	7
Tanqu Abergele	14,492	12,773	25,001	1.73	261,429	5.40	5
East Tigray Zone	118,426	88,234	118,764	1.00	4,094,540	26.04	11
Gulumahada	15,512	10,949	16,467	1.06	422,198	17.15	11
Erob	3,581	2,595	3,003	0.84	97,062	27.84	7
Saesi Tsaedamba	23,698	17,684	21,590	0.91	646,976	25.06	8
Ganta Afeshum	20,201	15,285	20,848	1.03	569,332	20.28	13
Hawzen	20,539	15,673	21,060	1.03	908,481	33.58	10
Wukro	14,563	11,064	15,631	1.07	481,371	21.46	13
Atsbi Wenberta	20,332	14,983	20,165	0.99	969,121	35.70	11
South Tigray Zone	170,821	132,626	212,150	1.24	4,285,926	12.54	7
Seharte Samre	22,394	18,553	36,670	1.64	533,439	7.34	7
Enderta	21,353	16,197	24,571	1.15	958,609	26.23	11
Hintalo Wajirat	27,944	22,211	36,786	1.32	1,062,973	17.03	8
Ambalage	19,962	13,972	21,639	1.08	322,605	9.16	7
Endamehoni	16,810	11,498	17,442	1.04	187,050	6.92	5
Rayaaazebo	19,926	17,112	27,725	1.39	695,494	15.35	6
Alamata	14,537	12,185	16,294	1.12	277,251	13.04	6
Wofla	27,895	20,899	31,023	1.11	248,505	5.28	6

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)
Tigray Region	671,737	535,927	682,770	1.02	18,685,929	21.51	5
West Tigray Zone	166,544	140,238	175,650	1.05	6,279,145	28.67	5
Kafta	10,056	5,195	6,141	0.61	274,029	37.51	8
Tahtay Adiyabo	15,775	13,010	17,184	1.09	636,141	27.76	3
Laelay Adiyabo	20,677	17,803	20,634	1.00	741,282	31.22	3
Tahtay Koraro	13,471	11,817	16,988	1.26	548,250	22.46	5
Medebay Zana	22,348	18,845	23,643	1.06	658,579	22.31	4
Asegede Tsimbela	20,570	19,015	27,039	1.31	907,375	23.73	3
Tselemti	27,248	24,270	28,647	1.05	995,025	29.25	5
Welkait	21,875	18,007	21,353	0.98	977,019	38.51	8
Tsegede	14,525	12,276	14,021	0.97	541,444	33.79	10
Central Tigray Zone	215,944	174,272	226,536	1.05	5,647,314	19.19	5
Mereb Lehe	18,067	15,426	19,220	1.06	558,313	23.32	3
Ahiferom	33,102	25,013	32,713	0.99	951,851	22.62	6
Werie Lehe	26,501	21,172	27,485	1.04	768,713	21.45	5
Adwa	23,097	18,943	27,455	1.19	821,155	21.54	4
Laelay Maychew	14,111	10,789	16,964	1.20	472,633	17.35	6
Tahtay Maychew	17,434	13,168	15,706	0.90	376,276	20.32	5
Naeder Adet	21,093	17,150	20,981	0.99	373,700	15.02	5
Kola Temben	26,373	22,723	27,517	1.04	516,234	15.35	3
Degua Temben	21,674	17,164	21,228	0.98	492,271	18.68	7
Tanqu Abergele	14,492	12,724	17,267	1.19	316,167	13.45	3
East Tigray Zone	118,426	90,130	117,703	0.99	3,167,553	20.68	4
Gulumahada	15,512	11,450	16,074	1.04	440,988	19.24	4
Erob	3,581	2,645	3,052	0.85	88,612	25.56	4
Saesi Tsaedamba	23,698	17,858	21,503	0.91	471,031	18.32	3
Ganta Afeshum	20,201	15,619	21,121	1.05	494,941	17.62	5
Hawzen	20,539	15,920	19,970	0.97	639,517	26.04	3
Wukro	14,563	11,188	14,676	1.01	352,471	18.35	6
Atsbi Wenberta	20,332	15,450	21,307	1.05	679,994	23.09	4
South Tigray Zone	170,821	131,287	162,881	0.95	3,591,916	17.61	5
Seharte Samre	22,394	18,579	25,672	1.15	545,460	15.40	4
Enderta	21,353	16,383	21,085	0.99	518,459	19.19	7
Hintalo Wajirat	27,944	22,201	28,191	1.01	814,646	22.66	3
Ambalage	19,962	13,793	15,781	0.79	341,807	18.96	6
Endamehoni	16,810	11,245	12,921	0.77	258,669	17.39	6
Rayaazebo	19,926	16,888	23,084	1.16	543,086	17.39	6
Alamata	14,537	11,374	13,281	0.91	244,761	15.72	5
Wofla	27,895	20,824	22,867	0.82	325,028	12.89	7

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)
Tigray Region	671,737	530,386	719,884	1.07	4,210,038	4.38	3
West Tigray Zone	166,544	139,449	183,547	1.10	1,411,592	5.99	3
Kafta	10,056	5,061	5,924	0.59	57,322	8.28	4
Tahtay Adiyabo	15,775	12,673	17,649	1.12	133,538	5.57	2
Laelay Adiyabo	20,677	17,587	23,068	1.12	154,891	5.22	2
Tahtay Koraro	13,471	11,673	17,125	1.27	123,535	5.21	3
Medebay Zana	22,348	18,863	24,328	1.09	151,777	4.84	3
Asegede Tsimbela	20,570	19,053	29,146	1.42	189,082	4.30	2
Tselemti	27,248	24,091	29,788	1.09	225,646	6.20	3
Welkait	21,875	18,162	22,449	1.03	243,017	8.88	5
Tsegede	14,525	12,287	14,069	0.97	132,783	8.16	6
Central Tigray Zone	215,944	172,277	244,202	1.13	1,252,213	3.68	3
Mereb Lehe	18,067	15,355	21,948	1.21	133,172	4.26	2
Ahiferom	33,102	24,562	33,050	1.00	187,808	4.26	4
Werie Lehe	26,501	20,915	30,596	1.15	156,894	3.43	3
Adwa	23,097	18,829	31,905	1.38	173,164	3.51	3
Laelay Maychew	14,111	10,516	16,910	1.20	88,640	3.32	4
Tahtay Maychew	17,434	13,170	16,064	0.92	89,109	4.52	3
Naeder Adet	21,093	16,955	21,178	1.00	98,902	3.74	4
Kola Temben	26,373	22,810	30,196	1.14	138,794	3.52	2
Degua Temben	21,674	16,965	22,545	1.04	102,287	3.43	4
Tanqu Abergele	14,492	12,200	19,811	1.37	83,442	2.84	3
East Tigray Zone	118,426	87,204	118,707	1.00	663,462	4.17	3
Gulumahada	15,512	11,135	15,122	0.97	89,406	4.34	3
Erob	3,581	2,611	2,958	0.83	23,999	7.23	3
Saesi Tsaedamba	23,698	17,523	21,773	0.92	121,132	4.49	3
Ganta Afeshum	20,201	14,947	19,204	0.95	103,850	4.28	4
Hawzen	20,539	15,006	21,206	1.03	118,783	4.01	2
Wukro	14,563	10,892	14,333	0.98	66,585	3.59	4
Atsbi Wenberta	20,332	15,090	24,111	1.19	139,707	3.80	2
South Tigray Zone	170,821	131,456	173,428	1.02	882,771	3.82	4
Seharte Samre	22,394	18,645	25,600	1.14	126,225	3.51	3
Enderta	21,353	15,635	23,889	1.12	127,844	3.44	4
Hintalo Wajirat	27,944	21,757	29,262	1.05	172,637	4.41	3
Ambalage	19,962	13,955	16,870	0.85	89,431	4.38	4
Endamehoni	16,810	11,542	14,157	0.84	73,536	4.22	4
Rayaaazebo	19,926	17,007	23,595	1.18	124,373	3.80	5
Alamata	14,537	12,142	14,835	1.02	70,382	3.93	4
Wofla	27,895	20,774	25,219	0.90	98,342	3.17	5

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)
Tigray Region	671,737	531,578	734,456	1.09	9,112,985	9.33	8
West Tigray Zone	166,544	140,843	200,252	1.20	1,668,631	5.86	4
Kafta	10,056	4,721	5,994	0.60	67,402	9.29	3
Tahtay Adiyabo	15,775	13,121	18,556	1.18	183,436	7.01	5
Laelay Adiyabo	20,677	18,241	26,540	1.28	313,061	8.11	4
Tahtay Koraro	13,471	11,840	18,582	1.38	207,179	7.17	5
Medebay Zana	22,348	18,810	27,194	1.22	211,493	5.40	4
Asegede Tsimbela	20,570	19,016	31,714	1.54	193,962	3.65	4
Tselemti	27,248	24,256	33,331	1.22	258,699	5.71	4
Welkait	21,875	18,076	22,814	1.04	166,638	5.70	3
Tsegede	14,525	12,760	15,527	1.07	66,761	3.63	3
Central Tigray Zone	215,944	173,228	255,849	1.18	2,559,085	6.89	8
Mereb Lehe	18,067	15,401	24,026	1.33	246,329	6.71	6
Ahiferom	33,102	23,698	30,676	0.93	407,926	10.34	9
Werie Lehe	26,501	21,148	31,900	1.20	256,574	5.30	9
Adwa	23,097	19,067	27,042	1.17	409,565	10.54	11
Laelay Maychew	14,111	10,850	14,845	1.05	231,161	11.32	11
Tahtay Maychew	17,434	13,276	18,028	1.03	156,269	6.37	6
Naeder Adet	21,093	17,123	25,433	1.21	170,520	4.54	7
Kola Temben	26,373	22,974	36,576	1.39	273,068	4.77	5
Degua Temben	21,674	16,866	23,967	1.11	220,759	6.45	9
Tanqu Abergele	14,492	12,825	23,357	1.61	186,913	4.40	5
East Tigray Zone	118,426	87,543	105,082	0.89	2,430,145	19.62	12
Gulumahada	15,512	10,784	12,288	0.79	306,975	21.54	15
Erob	3,581	2,649	2,958	0.83	82,413	25.00	8
Saesi Tsaedamba	23,698	17,656	21,449	0.91	453,686	18.47	9
Ganta Afeshum	20,201	14,901	17,796	0.88	377,208	17.84	13
Hawzen	20,539	15,770	18,996	0.92	375,376	17.20	12
Wukro	14,563	10,701	13,081	0.90	290,152	18.51	15
Atsbi Wenberta	20,332	15,081	18,513	0.91	544,334	23.81	12
South Tigray Zone	170,821	129,965	173,273	1.01	2,455,125	10.70	10
Seharte Samre	22,394	18,382	27,880	1.24	249,449	6.01	9
Enderta	21,353	15,466	19,152	0.90	567,631	24.03	17
Hintalo Wajirat	27,944	21,966	29,148	1.04	680,569	17.86	11
Ambalage	19,962	13,462	17,595	0.88	150,144	6.29	8
Endamehoni	16,810	11,167	14,591	0.87	98,610	5.29	6
Rayaaazebo	19,926	16,989	24,205	1.21	409,177	11.57	8
Alamata	14,537	12,161	15,455	1.06	161,669	8.33	7
Wofla	27,895	20,372	25,246	0.91	137,876	4.31	8

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)
Tigray Region	671,737	589,958	1,396,916	2.08	11,109,346	3.60	5
West Tigray Zone	166,544	153,278	318,906	1.91	4,116,652	6.46	4
Kafta	10,056	9,154	20,499	2.04	268,893	6.08	4
Tahtay Adiyabo	15,775	13,922	27,940	1.77	407,684	7.25	5
Laelay Adiyabo	20,677	18,440	36,466	1.76	497,289	7.31	4
Tahtay Koraro	13,471	12,248	32,257	2.39	271,565	3.19	4
Medebay Zana	22,348	21,108	50,222	2.25	385,339	3.23	4
Asegede Tsimbela	20,570	19,338	43,196	2.10	549,505	5.86	4
Tselemti	27,248	25,835	46,295	1.70	763,660	9.23	5
Welkait	21,875	19,655	36,083	1.65	593,599	8.77	5
Tsegede	14,525	13,578	25,948	1.79	379,119	7.90	5
Central Tigray Zone	215,944	195,135	538,178	2.49	3,228,786	2.22	5
Mereb Lehe	18,067	16,652	40,371	2.23	313,724	3.34	4
Ahiferom	33,102	29,376	80,626	2.44	607,600	2.84	4
Werie Lehe	26,501	23,776	78,254	2.95	401,081	1.55	6
Adwa	23,097	20,092	60,648	2.63	418,067	2.26	4
Laelay Maychew	14,111	12,537	37,222	2.64	231,514	2.12	5
Tahtay Maychew	17,434	14,918	32,772	1.88	212,362	2.96	4
Naeder Adet	21,093	19,874	50,576	2.40	232,795	1.85	7
Kola Temben	26,373	25,009	76,663	2.91	349,832	1.45	5
Degua Temben	21,674	19,478	47,508	2.19	222,988	1.94	6
Tanqu Abergele	14,492	13,422	33,538	2.31	238,823	2.91	5
East Tigray Zone	118,426	96,309	221,054	1.87	1,674,209	3.37	4
Gulumahada	15,512	12,220	29,472	1.90	229,920	3.21	4
Erob	3,581	3,111	6,844	1.91	64,612	4.51	5
Saesi Tsaedamba	23,698	18,656	38,179	1.61	296,595	3.87	3
Ganta Afeshum	20,201	16,727	39,586	1.96	294,792	3.35	4
Hawzen	20,539	17,223	45,883	2.23	353,751	2.86	5
Wukro	14,563	12,081	27,960	1.92	148,497	2.32	5
Atsbi Wenberta	20,332	16,290	33,131	1.63	286,042	4.31	3
South Tigray Zone	170,821	145,236	318,779	1.87	2,089,698	3.22	6
Seharte Samre	22,394	19,923	55,254	2.47	289,727	1.84	6
Enderta	21,353	17,748	48,080	2.25	230,649	2.06	5
Hintalo Wajirat	27,944	23,282	53,974	1.93	370,421	3.03	5
Ambalage	19,962	15,692	29,494	1.48	204,568	3.71	6
Endamehoni	16,810	13,762	25,586	1.52	213,979	4.72	7
Rayaaazebo	19,926	17,837	32,006	1.61	382,934	6.71	6
Alamata	14,537	12,659	23,201	1.60	197,876	5.24	6
Wofla	27,895	24,333	51,183	1.83	199,544	1.85	7

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

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Hay-Forks Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Hay-Fork (Birr)	Average Duration of Service of Hay-Fork (Years)
Tigray Region	671,737	6,621	9,845	0.01	100,422	7.64	9
West Tigray Zone	166,544	1,383	2,194	0.01	13,621	4.39	5
Kafta	10,056	*	*	*	*	*	*
Tahtay Adiyabo	15,775	254	313	0.02	3,633	10.61	5
Laelay Adiyabo	20,677	109	157	0.01	890	4.14	*
Tahtay Koraro	13,471	91	181	0.01	1,535	4.24	4
Medebay Zana	22,348	223	329	0.01	*	*	2
Asegede Tsimbela	20,570	264	598	0.03	3,467	3.31	*
Tselemti	27,248	246	363	0.01	*	4.24	4
Welkait	21,875	113	*	*	*	*	*
Tsegede	14,525	*	*	*	*	*	*
Central Tigray Zone	215,944	1,842	2,559	0.01	26,197	8.41	15
Mereb Lehe	18,067	326	497	0.03	4,575	6.80	5
Ahiferom	33,102	*	*	*	*	*	*
Werie Lehe	26,501	*	*	*	*	*	*
Adwa	23,097	442	560	0.02	7,695	12.27	27
Laelay Maychew	14,111	391	497	0.04	8,367	14.51	25
Tahtay Maychew	17,434	125	155	0.01	990	5.25	*
Naeder Adet	21,093	245	353	0.02	*	*	5
Kola Temben	26,373	*	*	*	*	*	*
Degua Temben	21,674	*	*	*	*	*	*
Tanqu Abergele	14,492	125	*	*	*	*	6
East Tigray Zone	118,426	1,642	2,423	0.02	34,689	10.27	7
Gulumahada	15,512	382	599	0.04	11,555	14.31	6
Erob	3,581	43	82	0.02	885	5.60	3
Saesi Tsaedamba	23,698	314	446	0.02	4,949	7.89	7
Ganta Afeshum	20,201	204	394	0.02	4,319	6.06	*
Hawzen	20,539	351	496	0.02	7,924	11.46	6
Wukro	14,563	95	*	*	*	*	2
Atsbi Wenberta	20,332	252	252	0.01	3,706	14.71	9
South Tigray Zone	170,821	1,754	2,670	0.02	25,916	7.19	8
Seharte Samre	22,394	155	*	*	1,767	*	6
Enderta	21,353	396	631	0.03	7,607	9.69	7
Hintalo Wajirat	27,944	461	743	0.03	10,463	9.40	6
Ambalage	19,962	128	128	0.01	1,145	8.94	17
Endamehoni	16,810	149	*	*	*	*	*
Rayaaazebo	19,926	*	*	*	*	*	*
Alamata	14,537	175	195	0.01	1,217	5.51	7
Wofla	27,895	174	214	0.01	*	4.79	11

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

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Hay-Forks Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Hay-Fork (Birr)	Average Duration of Service of Hay-Fork (Years)
Tigray Region	671,737	464,284	883,446	1.32	5,284,671	3.17	5
West Tigray Zone	166,544	114,688	204,606	1.23	941,846	2.62	4
Kafta	10,056	2,332	3,425	0.34	16,634	3.38	3
Tahtay Adiyabo	15,775	9,881	16,216	1.03	88,822	3.53	4
Laelay Adiyabo	20,677	15,693	32,599	1.58	155,823	2.42	4
Tahtay Koraro	13,471	9,567	19,379	1.44	122,630	3.32	4
Medebay Zana	22,348	16,307	30,207	1.35	147,605	2.63	4
Asegede Tsimbela	20,570	17,452	36,821	1.79	133,119	1.73	3
Tselemti	27,248	19,578	32,481	1.19	146,679	2.78	4
Welkait	21,875	13,577	18,741	0.86	78,602	2.98	3
Tsegede	14,525	10,301	14,737	1.01	51,932	2.39	4
Central Tigray Zone	215,944	155,545	307,911	1.43	1,708,131	2.82	5
Mereb Lehe	18,067	13,845	27,203	1.51	143,797	2.79	4
Ahiferom	33,102	21,804	40,567	1.23	263,744	3.53	5
Werie Lehe	26,501	19,488	45,030	1.70	226,378	2.13	5
Adwa	23,097	14,412	28,697	1.24	185,916	3.25	5
Laelay Maychew	14,111	10,030	19,423	1.38	174,085	4.52	6
Tahtay Maychew	17,434	12,324	19,940	1.14	122,619	3.74	4
Naeder Adet	21,093	15,892	30,212	1.43	144,665	2.52	7
Kola Temben	26,373	20,556	39,915	1.51	161,383	2.11	4
Degua Temben	21,674	16,555	38,661	1.78	193,759	2.17	5
Tanqu Abergele	14,492	10,640	18,262	1.26	91,786	2.94	6
East Tigray Zone	118,426	79,995	155,999	1.32	1,419,326	4.81	5
Gulumahada	15,512	9,697	18,913	1.22	190,436	5.25	4
Erob	3,581	2,443	4,556	1.27	54,001	6.38	4
Saesi Tsaedamba	23,698	15,713	30,548	1.29	265,178	4.61	4
Ganta Afeshum	20,201	13,517	24,774	1.23	226,356	5.14	6
Hawzen	20,539	14,002	28,051	1.37	286,222	5.36	5
Wukro	14,563	10,140	19,741	1.36	132,878	3.43	5
Atsbi Wenberta	20,332	14,482	29,416	1.45	264,253	4.60	5
South Tigray Zone	170,821	114,057	214,930	1.26	1,215,368	3.00	5
Seharte Samre	22,394	16,979	36,172	1.62	163,386	2.07	5
Enderta	21,353	14,451	29,094	1.36	229,774	3.99	5
Hintalo Wajirat	27,944	18,209	33,088	1.18	244,553	4.13	5
Ambalage	19,962	13,451	23,270	1.17	127,234	3.11	6
Endamehoni	16,810	11,324	20,316	1.21	99,859	2.71	5
Rayaaazebo	19,926	11,909	22,766	1.14	125,139	2.91	5
Alamata	14,537	7,466	12,801	0.88	77,070	3.45	6
Wofla	27,895	20,267	37,423	1.34	148,353	2.13	6

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

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Threshing Sticks Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Threshing Stick (Birr)	Average Duration of Service of Threshing Stick (Years)
Tigray Region	671,737	60,233	113,046	0.17	324,870	1.77	2
West Tigray Zone	166,544	22,660	43,848	0.26	97,802	1.35	2
Kafta	10,056	*	*	*	*	*	*
Tahtay Adiyabo	15,775	730	1,205	0.08	5,885	3.15	3
Laelay Adiyabo	20,677	5,967	12,439	0.60	23,797	0.91	1
Tahtay Koraro	13,471	1,900	4,332	0.32	10,120	0.96	2
Medebay Zana	22,348	1,805	2,450	0.11	*	*	*
Asegede Tsimbela	20,570	4,792	10,818	0.53	13,321	0.61	2
Tselemti	27,248	6,485	10,824	0.40	31,682	2.12	2
Welkait	21,875	*	*	*	4,300	*	*
Tsegede	14,525	*	*	*	*	*	*
Central Tigray Zone	215,944	16,721	32,085	0.15	69,677	1.31	2
Mereb Lehe	18,067	948	1,682	0.09	4,340	1.42	2
Ahiferom	33,102	660	*	*	*	*	2
Werie Lehe	26,501	*	*	*	4,621	*	*
Adwa	23,097	230	442	0.02	1,802	2.13	6
Laelay Maychew	14,111	721	1,041	0.07	*	*	*
Tahtay Maychew	17,434	*	*	*	*	*	*
Naeder Adet	21,093	2,913	5,222	0.25	8,469	0.93	2
Kola Temben	26,373	6,102	13,995	0.53	23,682	0.76	2
Degua Temben	21,674	*	1,214	*	*	*	*
Tanqu Abergele	14,492	2,421	4,403	0.30	9,016	1.14	1
East Tigray Zone	118,426	13,832	25,638	0.22	82,619	2.25	2
Gulumahada	15,512	1,765	3,112	0.20	6,842	1.24	2
Erob	3,581	248	278	0.08	4,698	15.80	5
Saesi Tsaedamba	23,698	2,794	4,486	0.19	7,962	1.10	2
Ganta Afeshum	20,201	663	816	0.04	6,837	6.70	2
Hawzen	20,539	2,768	4,238	0.21	17,897	2.76	2
Wukro	14,563	1,314	1,650	0.11	*	*	2
Atsbi Wenberta	20,332	4,281	11,059	0.54	20,120	0.96	1
South Tigray Zone	170,821	7,020	11,474	0.07	74,773	3.57	4
Seharte Samre	22,394	1,511	2,064	0.09	7,551	*	2
Enderta	21,353	498	988	0.05	6,124	3.01	3
Hintalo Wajirat	27,944	1,715	*	*	*	*	3
Ambalage	19,962	393	441	0.02	2,975	6.20	7
Endamehoni	16,810	581	754	0.04	4,371	4.09	4
Rayaaazebo	19,926	859	1,489	0.07	*	*	*
Alamata	14,537	901	2,255	0.16	5,914	1.23	2
Wofla	27,895	561	772	0.03	3,851	3.88	*

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

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Winnowers Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Winnowers (Birr)	Average Duration of Service of Winnowers (Years)
Tigray Region	671,737	3,703	4,027	0.01	48,784	11.13	10
West Tigray Zone	166,544	916	969	0.01	10,751	10.90	8
Kafta	10,056	*	*	*	*	*	*
Tahtay Adiyabo	15,775	*	*	*	*	*	*
Laelay Adiyabo	20,677	*	*	*	*	*	*
Tahtay Koraro	13,471	-	-	-	-	-	-
Medebay Zana	22,348	-	-	-	-	-	-
Asegede Tsimbela	20,570	*	*	*	*	*	*
Tselemti	27,248	*	*	*	*	*	*
Welkait	21,875	139	139	0.01	1,543	11.10	9
Tsegede	14,525	*	*	*	*	*	*
Central Tigray Zone	215,944	*	*	*	*	*	*
Mereb Lehe	18,067	-	-	-	-	-	-
Ahiferom	33,102	*	*	*	*	*	*
Werie Lehe	26,501	*	*	*	*	*	*
Adwa	23,097	-	-	-	-	-	-
Laelay Maychew	14,111	-	-	-	-	-	-
Tahtay Maychew	17,434	*	*	*	*	*	*
Naeder Adet	21,093	*	*	*	*	*	*
Kola Temben	26,373	*	*	*	*	*	*
Degua Temben	21,674	*	*	*	*	*	*
Tanqu Abergele	14,492	*	*	*	*	*	*
East Tigray Zone	118,426	1,001	1,172	0.01	15,699	11.36	7
Gulumahada	15,512	-	-	-	-	-	-
Erob	3,581	-	-	-	-	-	-
Saesi Tsaedamba	23,698	*	*	*	*	*	*
Ganta Afeshum	20,201	*	*	*	*	*	*
Hawzen	20,539	*	*	*	*	*	*
Wukro	14,563	*	*	*	*	*	*
Atsbi Wenberta	20,332	*	*	*	*	*	*
South Tigray Zone	170,821	952	1,015	0.01	16,953	15.45	14
Seharte Samre	22,394	*	*	*	*	*	*
Enderta	21,353	*	*	*	*	*	*
Hintalo Wajirat	27,944	*	*	*	*	*	*
Ambalage	19,962	*	*	*	*	*	*
Endamehoni	16,810	*	*	*	*	*	*
Rayazebo	19,926	*	*	*	*	*	*
Alamata	14,537	261	261	0.02	*	*	7
Wofla	27,895	*	*	*	*	*	*

TABLE 8.18A:- 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)
Tigray Region	671,737	112,031	130,588	0.19	1,461,764	9.86	11
West Tigray Zone	166,544	33,662	39,401	0.24	235,254	5.16	5
Kafta	10,056	1,984	2,379	0.24	12,939	4.70	4
Tahtay Adiyabo	15,775	501	571	0.04	6,057	9.38	6
Laelay Adiyabo	20,677	*	*	*	*	*	*
Tahtay Koraro	13,471	737	1,706	0.13	6,554	1.60	4
Medebay Zana	22,348	*	*	*	*	*	*
Asegede Tsimbela	20,570	984	*	*	8,687	*	3
Tselemti	27,248	10,604	11,534	0.42	81,384	6.54	6
Welkait	21,875	9,061	10,530	0.48	76,298	6.12	5
Tsegede	14,525	9,004	9,990	0.69	40,140	3.69	6
Central Tigray Zone	215,944	9,595	13,886	0.06	96,378	5.11	9
Mereb Lehe	18,067	*	*	*	*	*	*
Ahiferom	33,102	*	*	*	*	*	*
Werie Lehe	26,501	*	*	*	*	*	*
Adwa	23,097	2,298	4,391	0.19	25,412	3.09	3
Laelay Maychew	14,111	-	-	-	-	-	-
Tahtay Maychew	17,434	*	*	*	*	*	*
Naeder Adet	21,093	*	*	*	*	*	*
Kola Temben	26,373	*	*	*	*	*	*
Degua Temben	21,674	1,440	1,513	0.07	19,970	12.60	16
Tanqu Abergele	14,492	4,828	6,704	0.46	40,895	4.51	10
East Tigray Zone	118,426	4,535	6,341	0.05	94,014	12.72	12
Gulumahada	15,512	*	*	*	*	*	*
Erob	3,581	222	233	0.07	2,503	10.07	5
Saesi Tsaedamba	23,698	*	*	*	*	*	*
Ganta Afeshum	20,201	*	*	*	*	*	*
Hawzen	20,539	175	221	0.01	2,377	8.24	*
Wukro	14,563	1,402	1,485	0.10	39,514	24.74	22
Atsbi Wenberta	20,332	2,488	4,129	0.20	45,628	8.79	8
South Tigray Zone	170,821	64,239	70,960	0.42	1,036,118	13.15	14
Seharte Samre	22,394	7,844	8,696	0.39	57,344	5.95	11
Enderta	21,353	5,352	5,609	0.26	112,294	19.20	18
Hintalo Wajirat	27,944	8,952	9,955	0.36	196,013	18.08	12
Ambalage	19,962	7,203	7,456	0.37	96,832	12.43	15
Endamehoni	16,810	8,203	8,611	0.51	136,236	15.06	14
Rayaaazebo	19,926	7,687	9,913	0.50	193,401	15.08	12
Alamata	14,537	6,165	7,326	0.50	91,188	10.39	11
Wofla	27,895	12,832	13,395	0.48	152,810	10.87	17

TABLE 8.19A:- Number of Holders Reporting Cart Owned, Quantity Reported, Replacement Value, and 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)
Tigray Region	671,737	1,097	1,207	0.00	2,025,109	1,657.08	17
West Tigray Zone	166,544	831	914	0.01	1,902,366	2,054.18	19
Kafta	10,056	752	752	0.07	1,831,537	2,435.55	21
Tahtay Adiyabo	15,775	-	-	-	-	-	-
Laelay Adiyabo	20,677	*	*	*	*	*	*
Tahtay Koraro	13,471	*	*	*	*	*	*
Medebay Zana	22,348	-	-	-	-	-	-
Asegede Tsimbela	20,570	-	-	-	-	-	-
Tselemti	27,248	-	-	-	-	-	-
Welkait	21,875	-	-	-	-	-	-
Tsegede	14,525	-	-	-	-	-	-
Central Tigray Zone	215,944	*	*	*	*	*	*
Mereb Lehe	18,067	-	-	-	-	-	-
Ahiferom	33,102	-	-	-	-	-	-
Werie Lehe	26,501	-	-	-	-	-	-
Adwa	23,097	*	*	*	*	*	*
Laelay Maychew	14,111	-	-	-	-	-	-
Tahtay Maychew	17,434	-	-	-	-	-	-
Naeder Adet	21,093	-	-	-	-	-	-
Kola Temben	26,373	-	-	-	-	-	-
Degua Temben	21,674	-	-	-	-	-	-
Tanqu Abergele	14,492	-	-	-	-	-	-
East Tigray Zone	118,426	*	*	*	*	*	*
Gulumahada	15,512	*	*	*	*	*	*
Erob	3,581	-	-	-	-	-	-
Saesi Tsaedamba	23,698	-	-	-	-	-	-
Ganta Afeshum	20,201	-	-	-	-	-	-
Hawzen	20,539	-	-	-	-	-	-
Wukro	14,563	-	-	-	-	-	-
Atsbi Wenberta	20,332	-	-	-	-	-	-
South Tigray Zone	170,821	178	178	0.00	*	*	*
Seharte Samre	22,394	-	-	-	-	-	-
Enderta	21,353	*	*	*	*	*	*
Hintalo Wajirat	27,944	*	*	*	*	*	*
Ambalage	19,962	*	*	*	*	*	*
Endamehoni	16,810	-	-	-	-	-	-
Rayaaazebo	19,926	*	*	*	*	*	*
Alamata	14,537	*	*	*	*	*	*
Wofla	27,895	-	-	-	-	-	-

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

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Sprayers Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Sprayer (Birr)	Average Duration of Service of Sprayer (Years)
Tigray Region	671,737	3,096	5,468	0.01	60,010	7.60	5
West Tigray Zone	166,544	707	1,215	0.01	18,393	9.77	6
Kafta	10,056	*	*	*	*	*	*
Tahtay Adiyabo	15,775	*	*	*	*	*	*
Laelay Adiyabo	20,677	172	*	*	*	*	*
Tahtay Koraro	13,471	117	217	2	2,463	8.34	4
Medebay Zana	22,348	*	*	*	*	*	*
Asegede Tsimbela	20,570	*	*	*	*	*	*
Tselemti	27,248	*	*	*	*	*	*
Welkait	21,875	*	*	*	*	*	*
Tsegede	14,525	*	*	*	*	*	*
Central Tigray Zone	215,944	932	1,601	0.01	11,739	5.82	5
Mereb Lehe	18,067	86	105	0.01	1,770	15.21	3
Ahiferom	33,102	*	*	*	*	*	*
Werie Lehe	26,501	276	602	0.02	3,693	4.77	4
Adwa	23,097	100	*	*	*	*	*
Laelay Maychew	14,111	*	*	*	*	*	*
Tahtay Maychew	17,434	*	*	*	*	*	*
Naeder Adet	21,093	*	*	*	*	*	*
Kola Temben	26,373	*	*	*	*	*	*
Degua Temben	21,674	*	*	*	*	*	*
Tanqu Abergele	14,492	*	*	*	*	*	*
East Tigray Zone	118,426	560	1,193	0.01	11,469	4.78	3
Gulumahada	15,512	79	246	0.02	2,303	3.23	4
Erob	3,581	16	*	*	*	*	4
Saesi Tsaedamba	23,698	*	*	*	*	*	*
Ganta Afeshum	20,201	146	434	0.02	3,851	*	2
Hawzen	20,539	*	*	*	*	*	*
Wukro	14,563	*	*	*	*	*	*
Atsbi Wenberta	20,332	182	269	0.01	2,676	7.08	3
South Tigray Zone	170,821	897	1,459	0.01	18,409	10.07	5
Seharte Samre	22,394	*	*	*	*	*	-
Enderta	21,353	*	*	*	*	*	*
Hintalo Wajirat	27,944	386	*	*	*	*	*
Ambalage	19,962	*	*	*	*	*	*
Endamehoni	16,810	*	*	*	*	*	*
Rayaaazebo	19,926	*	*	*	*	*	*
Alamata	14,537	*	*	*	*	*	*
Wofla	27,895	*	*	*	*	*	*

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

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Wheelbarrows Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Wheelbarrow (Birr)	Average Duration of Service of Wheelbarrow (Years)
Tigray Region	671,737	799	872	0.00	112,450	127.53	18
West Tigray Zone	166,544	131	184	0.00	*	*	*
Kafta	10,056	*	*	*	*	*	*
Tahtay Adiyabo	15,775	-	-	-	-	-	-
Laelay Adiyabo	20,677	-	-	-	-	-	-
Tahtay Koraro	13,471	*	*	*	*	*	*
Medebay Zana	22,348	-	-	-	-	-	-
Asegede Tsimbela	20,570	-	-	-	-	-	-
Tselemti	27,248	*	*	*	*	*	*
Welkait	21,875	-	-	-	-	-	-
Tsegede	14,525	-	-	-	-	-	-
Central Tigray Zone	215,944	255	255	0.00	30,471	119.49	31
Mereb Lehe	18,067	-	-	-	-	-	-
Ahiferom	33,102	-	-	-	-	-	-
Werie Lehe	26,501	-	-	-	-	-	-
Adwa	23,097	226	226	0.01	26,175	115.82	32
Laelay Maychew	14,111	-	-	-	-	-	-
Tahtay Maychew	17,434	-	-	-	-	-	-
Naeder Adet	21,093	-	-	-	-	-	-
Kola Temben	26,373	-	-	-	-	-	-
Degua Temben	21,674	*	*	*	*	*	*
Tanqu Abergele	14,492	-	-	-	-	-	-
East Tigray Zone	118,426	301	321	0.00	60,844	186.65	8
Gulumahada	15,512	*	*	*	*	*	*
Erob	3,581	116	121	0.03	36,344	293.44	6
Saesi Tsaedamba	23,698	*	*	*	*	*	*
Ganta Afeshum	20,201	*	*	*	*	*	*
Hawzen	20,539	-	-	-	-	-	-
Wukro	14,563	-	-	-	-	-	-
Atsbi Wenberta	20,332	*	*	*	*	*	*
South Tigray Zone	170,821	*	*	*	*	*	*
Seharte Samre	22,394	-	-	-	-	-	-
Enderta	21,353	*	*	*	*	*	*
Hintalo Wajirat	27,944	-	-	-	-	-	-
Ambalage	19,962	-	-	-	-	-	-
Endamehoni	16,810	-	-	-	-	-	-
Rayaaazebo	19,926	-	-	-	-	-	-
Alamata	14,537	-	-	-	-	-	-
Wofla	27,895	*	*	*	*	*	*

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

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Asses Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Ass (Birr)	Average Age of Ass (Years)
Tigray Region	671,737	3,085	3,743	0.01	1,817,973	364.55	8
West Tigray Zone	166,544	677	762	0.00	435,701	485.02	9
Kafta	10,056	*	*	*	*	*	*
Tahtay Adiyabo	15,775	*	*	*	*	*	*
Laelay Adiyabo	20,677	*	*	*	*	*	*
Tahtay Koraro	13,471	*	*	*	*	*	*
Medebay Zana	22,348	*	*	*	*	*	*
Asegede Tsimbela	20,570	-	-	-	-	-	-
Tselemti	27,248	*	*	*	*	*	*
Welkait	21,875	*	*	*	*	*	*
Tsegede	14,525	-	-	-	-	-	-
Central Tigray Zone	215,944	760	893	0.00	384,293	339.61	7
Mereb Lehe	18,067	-	-	-	-	-	-
Ahiferom	33,102	191	*	*	*	*	*
Werie Lehe	26,501	*	*	*	*	*	*
Adwa	23,097	-	-	-	-	-	-
Laelay Maychew	14,111	-	-	-	-	-	-
Tahtay Maychew	17,434	*	*	*	*	*	*
Naeder Adet	21,093	*	*	*	*	*	*
Kola Temben	26,373	-	-	-	-	-	-
Degua Temben	21,674	*	*	*	*	*	*
Tanqu Abergele	14,492	*	*	*	*	*	*
East Tigray Zone	118,426	816	1,077	0.01	596,032	392.63	8
Gulumahada	15,512	*	*	*	*	*	*
Erob	3,581	137	232	0.06	234,884	581.39	9
Saesi Tsaedamba	23,698	*	*	*	*	*	*
Ganta Afeshum	20,201	-	-	-	-	-	-
Hawzen	20,539	-	-	-	-	-	-
Wukro	14,563	207	251	0.02	144,876	421.67	8
Atsbi Wenberta	20,332	*	*	*	*	*	*
South Tigray Zone	170,821	831	1,012	0.01	401,947	265.60	9
Seharte Samre	22,394	*	*	*	*	*	*
Enderta	21,353	253	339	0.02	86,398	187.04	7
Hintalo Wajirat	27,944	*	*	*	*	*	*
Ambalage	19,962	*	*	*	96,878	*	*
Endamehoni	16,810	*	*	*	*	*	*
Rayaaazebo	19,926	-	-	-	-	-	-
Alamata	14,537	-	-	-	-	-	-
Wofla	27,895	-	-	-	-	-	-

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

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Camels Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Camel (Birr)	Average Age of Camel (Years)
Tigray Region	671,737	514	539	0.00	907,200	1,636.36	11
West Tigray Zone	166,544	381	381	0.00	665,841	1,747.61	11
Kafta	10,056	*	*	*	*	*	*
Tahtay Adiyabo	15,775	*	*	*	*	*	-
Laelay Adiyabo	20,677	*	*	*	*	*	*
Tahtay Koraro	13,471	*	*	*	*	*	*
Medebay Zana	22,348	*	*	*	*	*	*
Asegede Tsimbela	20,570	*	*	*	*	*	*
Tselemti	27,248	-	-	-	-	-	-
Welkait	21,875	-	-	-	-	-	-
Tsegede	14,525	-	-	-	-	-	-
Central Tigray Zone	215,944	*	*	*	*	*	*
Mereb Lehe	18,067	*	*	*	*	*	*
Ahiferom	33,102	-	-	-	-	-	-
Werie Lehe	26,501	-	-	-	-	-	-
Adwa	23,097	-	-	-	-	-	-
Laelay Maychew	14,111	-	-	-	-	-	-
Tahtay Maychew	17,434	-	-	-	-	-	-
Naeder Adet	21,093	-	-	-	-	-	-
Kola Temben	26,373	-	-	-	-	-	-
Degua Temben	21,674	-	-	-	-	-	-
Tanqu Abergele	14,492	-	-	-	-	-	-
East Tigray Zone	118,426	-	-	-	-	-	-
Gulumahada	15,512	-	-	-	-	-	-
Erob	3,581	-	-	-	-	-	-
Saesi Tsaedamba	23,698	-	-	-	-	-	-
Ganta Afeshum	20,201	-	-	-	-	-	-
Hawzen	20,539	-	-	-	-	-	-
Wukro	14,563	-	-	-	-	-	-
Atsbi Wenberta	20,332	-	-	-	-	-	-
South Tigray Zone	170,821	-	-	-	-	-	-
Seharte Samre	22,394	-	-	-	-	-	-
Enderta	21,353	-	-	-	-	-	-
Hintalo Wajirat	27,944	-	-	-	-	-	-
Ambalage	19,962	-	-	-	-	-	-
Endamehoni	16,810	-	-	-	-	-	-
Rayaaazebo	19,926	-	-	-	-	-	-
Alamata	14,537	-	-	-	-	-	-
Wofla	27,895	-	-	-	-	-	-

TABLE 8.24A: - Number of Holders Reporting Mule (Specifically for ploughing) 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)
Tigray Region	671,737	151	*	*	*	*	10
West Tigray Zone	166,544	-	-	-	-	-	-
Kafta	10,056	-	-	-	-	-	-
Tahtay Adiyabo	15,775	-	-	-	-	-	-
Laelay Adiyabo	20,677	-	-	-	-	-	-
Tahtay Koraro	13,471	-	-	-	-	-	-
Medebay Zana	22,348	-	-	-	-	-	-
Asegede Tsimbela	20,570	-	-	-	-	-	-
Tselemti	27,248	-	-	-	-	-	-
Welkait	21,875	-	-	-	-	-	-
Tsegede	14,525	-	-	-	-	-	-
Central Tigray Zone	215,944	-	-	-	-	-	-
Mereb Lehe	18,067	-	-	-	-	-	-
Ahiferom	33,102	-	-	-	-	-	-
Werie Lehe	26,501	-	-	-	-	-	-
Adwa	23,097	-	-	-	-	-	-
Laelay Maychew	14,111	-	-	-	-	-	-
Tahtay Maychew	17,434	-	-	-	-	-	-
Naeder Adet	21,093	-	-	-	-	-	-
Kola Temben	26,373	-	-	-	-	-	-
Degua Temben	21,674	-	-	-	-	-	-
Tanqu Abergele	14,492	-	-	-	-	-	-
East Tigray Zone	118,426	*	*	*	*	*	*
Gulumahada	15,512	-	-	-	-	-	-
Erob	3,581	-	-	-	-	-	-
Saesi Tsaedamba	23,698	-	-	-	-	-	-
Ganta Afeshum	20,201	-	-	-	-	-	-
Hawzen	20,539	-	-	-	-	-	-
Wukro	14,563	-	-	-	-	-	-
Atsbi Wenberta	20,332	*	*	*	*	*	*
South Tigray Zone	170,821	*	*	*	*	*	*
Seharte Samre	22,394	-	-	-	-	-	-
Enderta	21,353	*	*	*	*	*	*
Hintalo Wajirat	27,944	-	-	-	-	-	-
Ambalage	19,962	-	-	-	-	-	-
Endamehoni	16,810	-	-	-	-	-	-
Rayaaazebo	19,926	-	-	-	-	-	-
Alamata	14,537	-	-	-	-	-	-
Wofla	27,895	-	-	-	-	-	-

TABLE 8.25A: - Total Number of Holders, 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 of Ox Per Holder	Total Value (Birr)	Average Replacement Value Per Ox (Birr)	Average Age of Ox (Years)
Tigray Region	671,737	475,321	844,845	1.26	643,505,551	447.67	8
West Tigray Zone	166,544	131,411	256,809	1.54	205,336,967	428.76	8
Kafta	10,056	3,868	13,397	1.33	6,520,698	251.55	9
Tahtay Adiyabo	15,775	12,017	23,754	1.51	21,877,942	479.25	8
Laelay Adiyabo	20,677	16,998	27,547	1.33	24,883,739	558.09	8
Tahtay Koraro	13,471	10,932	21,251	1.58	17,486,799	432.16	8
Medebay Zana	22,348	17,441	29,714	1.33	25,053,706	486.37	8
Asegede Tsimbela	20,570	17,960	43,031	2.09	30,217,421	338.32	8
Tselemti	27,248	22,914	40,039	1.47	32,001,504	456.82	8
Welkait	21,875	17,400	35,328	1.61	29,834,578	409.14	8
Tsegede	14,525	11,880	22,748	1.57	17,460,579	397.50	9
Central Tigray Zone	215,944	152,389	253,307	1.17	196,007,297	484.47	8
Mereb Lehe	18,067	13,150	21,785	1.21	20,046,937	560.78	8
Ahiferom	33,102	21,814	30,746	0.93	27,573,150	624.11	8
Werie Lehe	26,501	19,434	32,472	1.23	24,359,893	445.91	9
Adwa	23,097	17,115	28,488	1.23	24,451,399	515.65	8
Laelay Maychew	14,111	9,673	17,591	1.25	15,680,135	498.40	8
Tahtay Maychew	17,434	11,844	21,296	1.22	14,552,078	470.55	7
Naeder Adet	21,093	14,824	22,379	1.06	16,564,794	484.85	7
Kola Temben	26,373	18,254	28,599	1.08	20,205,435	461.86	7
Degua Temben	21,674	14,514	29,412	1.36	18,298,985	378.45	8
Tanqu Abergele	14,492	11,766	20,539	1.42	14,274,492	397.65	8
East Tigray Zone	118,426	73,288	105,464	0.89	82,624,976	546.00	8
Gulumahada	15,512	10,089	13,632	0.88	11,247,300	611.39	7
Erob	3,581	2,105	2,798	0.78	2,699,474	745.56	7
Saesi Tsaedamba	23,698	15,005	20,893	0.88	14,611,126	503.42	7
Ganta Afeshum	20,201	12,008	16,043	0.79	13,158,606	610.58	9
Hawzen	20,539	12,712	19,377	0.94	14,426,345	490.97	8
Wukro	14,563	10,249	16,948	1.16	13,119,880	468.91	6
Atsbi Wenberta	20,332	11,120	15,772	0.78	13,362,245	595.29	9
South Tigray Zone	170,821	118,233	229,265	1.34	159,536,311	382.96	8
Seharte Samre	22,394	16,498	28,136	1.26	19,325,356	409.55	8
Enderta	21,353	15,246	27,805	1.30	21,905,928	437.47	8
Hintalo Wajirat	27,944	19,807	34,836	1.25	30,142,455	486.29	9
Ambalage	19,962	12,035	35,148	1.76	13,210,818	234.85	8
Endamehoni	16,810	10,954	18,881	1.12	12,271,386	378.48	8
Rayaazebo	19,926	15,530	34,113	1.71	29,674,277	395.78	9
Alamata	14,537	10,397	20,581	1.42	15,278,748	369.93	8
Wofla	27,895	17,767	29,765	1.07	17,727,343	358.07	8

TABLE 8.26A: - Number of Holders Reporting Ass (For 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)
Tigray Region	671,737	224,091	293,767	0.44	80,452,942	218.45	8
West Tigray Zone	166,544	63,181	81,025	0.49	25,731,451	265.49	8
Kafta	10,056	4,728	5,447	0.54	2,586,767	421.26	9
Tahtay Adiyabo	15,775	8,420	9,993	0.63	3,534,661	301.19	9
Laelay Adiyabo	20,677	9,263	11,096	0.54	3,819,720	293.76	9
Tahtay Koraro	13,471	4,415	6,080	0.45	1,903,354	229.71	8
Medebay Zana	22,348	6,462	8,034	0.36	2,492,551	250.03	10
Asegede Tsimbela	20,570	7,214	13,266	0.64	2,734,533	170.68	7
Tselemti	27,248	6,232	7,703	0.28	2,276,706	238.91	7
Welkait	21,875	9,347	11,397	0.52	3,919,498	283.34	7
Tsegede	14,525	7,100	8,009	0.55	2,463,662	275.71	10
Central Tigray Zone	215,944	56,602	73,719	0.34	20,860,142	220.77	8
Mereb Lehe	18,067	6,478	7,811	0.43	2,446,673	262.46	8
Ahiferom	33,102	7,251	8,977	0.27	2,621,224	241.24	7
Werie Lehe	26,501	4,828	7,307	0.28	1,890,519	175.61	7
Adwa	23,097	5,557	7,745	0.34	2,295,965	219.76	8
Laelay Maychew	14,111	5,203	6,830	0.48	1,968,552	220.54	9
Tahtay Maychew	17,434	4,264	5,420	0.31	1,584,829	232.08	7
Naeder Adet	21,093	4,218	5,499	0.26	1,445,206	211.12	8
Kola Temben	26,373	5,631	7,411	0.28	2,019,207	206.98	7
Degua Temben	21,674	6,661	9,051	0.42	2,684,495	219.55	7
Tanqu Abergele	14,492	6,512	7,669	0.53	1,903,471	212.26	8
East Tigray Zone	118,426	34,043	42,393	0.36	11,547,435	221.65	7
Gulumahada	15,512	3,675	4,843	0.31	1,422,787	229.00	6
Erob	3,581	1,753	2,101	0.59	716,231	286.27	6
Saesi Tsaedamba	23,698	6,396	8,664	0.37	2,325,971	198.38	5
Ganta Afeshum	20,201	2,900	3,582	0.18	978,150	241.77	6
Hawzen	20,539	4,154	5,083	0.25	1,273,134	204.21	6
Wukro	14,563	6,716	8,045	0.55	2,049,455	217.44	6
Atsbi Wenberta	20,332	8,449	10,074	0.50	2,781,706	229.69	8
South Tigray Zone	170,821	70,264	96,630	0.57	22,313,914	175.82	8
Seharte Samre	22,394	9,772	11,757	0.53	2,901,108	206.23	8
Enderta	21,353	14,657	19,236	0.90	5,790,221	228.23	8
Hintalo Wajirat	27,944	13,596	17,273	0.62	4,570,525	208.89	8
Ambalage	19,962	6,052	11,902	0.60	1,813,159	110.44	8
Endamehoni	16,810	6,590	10,057	0.60	2,040,467	135.31	8
Rayaaazebo	19,926	7,567	9,502	0.48	2,136,916	179.58	9
Alamata	14,537	3,734	5,319	0.37	1,072,124	143.14	9
Wofla	27,895	8,295	11,584	0.42	1,989,395	122.90	9

TABLE 8.27A: - Number of Holders Reporting Camel (For 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)
Tigray Region	671,737	10,494	23,639	0.04	31,380,177	650.64	11
West Tigray Zone	166,544	3,392	4,062	0.02	7,073,511	1,447.75	12
Kafta	10,056	180	180	0.02	333,648	1,853.60	9
Tahtay Adiyabo	15,775	333	333	0.02	570,259	1,712.49	14
Laelay Adiyabo	20,677	621	645	0.03	1,001,983	1,493.18	10
Tahtay Koraro	13,471	*	*	*	*	*	*
Medebay Zana	22,348	649	738	0.03	1,121,971	1,357.06	15
Asegede Tsimbela	20,570	*	*	*	*	*	*
Tselemti	27,248	-	-	-	-	-	-
Welkait	21,875	*	*	*	*	*	*
Tsegede	14,525	194	194	0.01	346,485	1,786.01	10
Central Tigray Zone	215,944	2,872	3,637	0.02	5,314,082	1,243.07	10
Mereb Lehe	18,067	745	745	0.04	1,265,110	1,698.13	10
Ahiferom	33,102	1,214	1,257	0.04	1,977,948	1,564.67	11
Werie Lehe	26,501	*	*	*	*	*	*
Adwa	23,097	*	*	*	*	*	*
Laelay Maychew	14,111	*	*	*	*	*	*
Tahtay Maychew	17,434	290	290	0.02	422,532	1,457.01	*
Naeder Adet	21,093	-	-	-	-	-	-
Kola Temben	26,373	*	*	*	*	*	*
Degua Temben	21,674	*	*	*	*	*	*
Tanqu Abergele	14,492	*	*	*	*	*	*
East Tigray Zone	118,426	222	542	0.00	740,515	549.47	*
Gulumahada	15,512	-	-	-	-	-	-
Erob	3,581	-	-	-	-	-	-
Saesi Tsaidamba	23,698	-	-	-	-	-	-
Ganta Afeshum	20,201	*	*	*	*	*	*
Hawzen	20,539	*	*	*	*	*	*
Wukro	14,563	*	*	*	*	*	*
Atsbi Wenberta	20,332	-	-	-	-	-	-
South Tigray Zone	170,821	4,008	15,398	0.09	18,252,070	304.00	11
Seharte Samre	22,394	*	*	*	*	*	*
Enderta	21,353	159	432	0.02	663,620	523.85	11
Hintalo Wajirat	27,944	760	2,790	0.10	3,874,641	370.97	10
Ambalage	19,962	-	-	-	-	-	-
Endamehoni	16,810	-	-	-	-	-	-
Rayaazebo	19,926	2,797	11,592	0.58	12,901,053	260.88	10
Alamata	14,537	*	*	*	*	*	*
Wofla	27,895	-	-	-	-	-	-

TABLE 8.28A: - 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)
Tigray Region	671,737	487,143	1,162,895	1.73	823,638,127	318.03	8
West Tigray Zone	166,544	133,126	345,372	2.07	262,311,508	312.29	8
Kafta	10,056	4,010	12,458	1.24	9,941,943	275.04	9
Tahtay Adiyabo	15,775	12,202	34,221	2.17	31,616,723	341.13	8
Laelay Adiyabo	20,677	16,872	37,108	1.79	27,724,332	401.94	8
Tahtay Koraro	13,471	11,029	26,885	2.00	20,774,969	339.36	8
Medebay Zana	22,348	17,790	40,527	1.81	33,050,494	355.86	9
Asegede Tsimbela	20,570	18,291	57,420	2.79	41,542,040	241.79	8
Tselemti	27,248	23,331	55,420	2.03	41,489,159	320.52	8
Welkait	21,875	17,613	46,921	2.14	38,266,139	303.83	8
Tsegede	14,525	11,987	34,412	2.37	17,905,710	243.90	9
Central Tigray Zone	215,944	157,212	379,036	1.76	260,823,538	314.69	8
Mereb Lehe	18,067	13,368	27,767	1.54	24,603,377	432.20	8
Ahiferom	33,102	22,914	59,208	1.79	35,195,201	314.13	8
Werie Lehe	26,501	20,160	54,611	2.06	36,206,406	254.10	8
Adwa	23,097	17,533	44,085	1.91	33,359,333	312.78	8
Laelay Maychew	14,111	10,095	21,817	1.55	19,288,868	406.48	8
Tahtay Maychew	17,434	12,431	28,406	1.63	18,880,967	354.76	7
Naeder Adet	21,093	15,695	36,763	1.74	24,889,306	296.76	8
Kola Temben	26,373	17,812	38,476	1.46	24,925,008	308.06	7
Degua Temben	21,674	15,387	40,290	1.86	25,216,471	279.13	8
Tanqu Abergele	14,492	11,818	27,614	1.91	18,258,599	291.82	8
East Tigray Zone	118,426	74,215	152,893	1.29	107,262,447	362.63	8
Gulumahada	15,512	10,084	23,835	1.54	14,561,333	333.12	7
Erob	3,581	1,978	3,437	0.96	2,888,469	512.43	7
Saesi Tsaedamba	23,698	14,776	31,937	1.35	21,263,971	312.32	7
Ganta Afeshum	20,201	11,270	18,874	0.93	14,094,473	458.79	9
Hawzen	20,539	13,235	29,388	1.43	20,404,759	320.82	8
Wukro	14,563	10,276	20,748	1.42	15,765,171	383.91	7
Atsbi Wenberta	20,332	12,598	24,673	1.21	18,284,272	393.78	9
South Tigray Zone	170,821	122,590	285,595	1.67	193,240,634	305.51	8
Seharte Samre	22,394	17,494	41,164	1.84	25,684,927	274.94	9
Enderta	21,353	15,702	29,452	1.38	23,243,019	421.06	8
Hintalo Wajirat	27,944	19,980	44,743	1.60	35,786,521	370.59	9
Ambalage	19,962	12,647	28,246	1.41	18,023,580	290.61	9
Endamehoni	16,810	11,146	23,872	1.42	15,011,818	305.82	8
Rayaazebo	19,926	15,617	36,303	1.82	31,026,285	369.82	9
Alamata	14,537	10,733	29,986	2.06	16,378,651	248.92	8
Wofla	27,895	19,270	51,829	1.86	28,085,833	203.60	9

TABLE 8.29A:- 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)
Tigray Region	671,737	1,138	1,290	0.00	595,014	423.71	10
West Tigray Zone	166,544	304	338	0.00	198,949	517.66	8
Kafta	10,056	-	-	-	-	-	-
Tahtay Adiyabo	15,775	-	-	-	-	-	-
Lalay Adiyabo	20,677	-	-	-	-	-	-
Tahtay Koraro	13,471	*	*	*	*	*	*
Medebay Zana	22,348	-	-	-	-	-	-
Asegede Tsimbela	20,570	-	-	-	-	-	-
Tselemti	27,248	-	-	-	-	-	-
Welkait	21,875	-	-	-	-	-	-
Tsegede	14,525	288	306	0.02	166,269	518.39	8
Central Tigray Zone	215,944	*	*	*	*	*	*
Mereb Lehe	18,067	-	-	-	-	-	-
Ahiferom	33,102	*	*	*	*	*	*
Werie Lehe	26,501	-	-	-	-	-	-
Adwa	23,097	-	-	-	-	-	-
Lalay Maychew	14,111	-	-	-	-	-	-
Tahtay Maychew	17,434	-	-	-	-	-	-
Naeder Adet	21,093	-	-	-	-	-	-
Kola Temben	26,373	-	-	-	-	-	-
Degua Temben	21,674	-	-	-	-	-	-
Tanqu Abergele	14,492	-	-	-	-	-	-
East Tigray Zone	118,426	186	205	0.00	92,816	438.46	*
Gulumahada	15,512	58	*	*	21,662	*	*
Erob	3,581	-	-	-	-	-	-
Saesi Tsaedamba	23,698	*	*	*	*	*	*
Ganta Afeshum	20,201	-	-	-	-	-	-
Hawzen	20,539	-	-	-	-	-	-
Wukro	14,563	-	-	-	-	-	-
Atsbi Wenberta	20,332	*	*	*	*	*	*
South Tigray Zone	170,821	581	681	0.00	293,392	399.24	12
Seharte Samre	22,394	-	-	-	-	-	-
Enderta	21,353	*	*	*	*	*	*
Hintalo Wajirat	27,944	-	-	-	-	-	-
Ambalage	19,962	137	137	0.01	67,429	492.18	*
Endamehoni	16,810	*	*	*	*	*	*
Rayaaazebo	19,926	*	*	*	*	*	*
Alamata	14,537	*	*	*	*	*	*
Wofla	27,895	*	*	*	*	*	*

TABLE 8.30A:- Number of Holders Reporting Mule (For 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)
Tigray Region	671,737	5,030	6,024	0.01	5,822,048	809.84	10
West Tigray Zone	166,544	1,064	1,128	0.01	1,146,202	960.96	11
Kafta	10,056	-	-	-	-	-	-
Tahtay Adiyabo	15,775	*	*	*	*	*	*
Laelay Adiyabo	20,677	*	*	*	*	*	*
Tahtay Koraro	13,471	74	*	*	*	*	10
Medebay Zana	22,348	*	*	*	*	*	*
Asegede Tsimbela	20,570	308	308	0.01	319,306	1,036.71	10
Tselemti	27,248	*	*	*	*	*	*
Welkait.....	21,875	257	257	0.01	245,774	956.32	13
Tsegede.....	14,525	205	220	0.02	192,930	816.86	11
Central Tigray Zone	215,944	1,158	1,405	0.01	1,262,797	753.39	11
Mereb Lehe.....	18,067	*	*	*	*	*	*
Ahiferom.....	33,102	*	*	*	*	*	*
Werie Lehe	26,501	*	*	*	*	*	*
Adwa.....	23,097	*	*	*	*	*	*
Laelay Maychew	14,111	-	-	-	-	-	-
Tahtay Maychew	17,434	*	*	*	*	*	*
Naeder Adet.....	21,093	-	-	-	-	-	-
Kola Temben	26,373	-	-	-	-	-	-
Degua Temben.....	21,674	450	568	0.03	*	*	11
Tanqu Abergele	14,492	130	130	0.01	91,175	701.35	13
East Tigray Zone	118,426	851	1,195	0.01	1,172,604	700.44	8
Gulumahada.....	15,512	*	*	*	*	*	*
Erob.....	3,581	*	*	*	*	*	*
Saesi Tsaedamba	23,698	*	*	*	*	*	*
Ganta Afeshum.....	20,201	*	*	*	*	*	*
Hawzen	20,539	*	*	*	*	*	*
Wukro	14,563	203	*	*	*	*	4
Atsbi Wenberta.....	20,332	385	632	0.03	660,432	654.69	11
South Tigray Zone.....	170,821	1,957	2,296	0.01	2,240,446	827.08	11
Seharte Samre.....	22,394	406	550	0.02	509,180	660.71	8
Enderta.....	21,353	446	522	0.02	505,634	827.20	11
Hintalo Wajirat	27,944	273	345	0.01	425,347	987.74	11
Ambalage.....	19,962	*	*	*	*	*	*
Endamehoni.....	16,810	*	*	*	*	*	*
Rayaazebo.....	19,926	204	251	0.01	*	*	8
Alamata.....	14,537	*	*	*	*	*	*
Wofla	27,895	359	359	0.01	294,743	821.01	10

TABLE 8.31A:- Number of Holders Reporting 'Debignit' Owned, Quantity Reported, Replacement Value and Storage Capacity, 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 Per 'Debignit' (Quintal)
Tigray Region	671,737	407,035	1,388,697	2.07	13,327,857	2.77	5
West Tigray Zone	166,544	98,999	270,340	1.62	2,391,484	3.10	7
Kafta	10,056	2,760	4,237	0.42	29,694	4.75	4
Tahtay Adiyabo	15,775	11,524	33,272	2.11	487,260	5.11	5
Laelay Adiyabo	20,677	11,860	54,410	2.63	495,457	1.86	24
Tahtay Koraro	13,471	10,619	28,961	2.15	269,888	3.66	17
Medebay Zana	22,348	15,031	46,784	2.09	276,461	1.74	3
Asegede Tsimbela	20,570	14,646	39,292	1.91	337,806	3.04	3
Tselemti	27,248	15,198	31,620	1.16	275,592	3.96	3
Welkait	21,875	8,071	15,354	0.70	136,200	4.46	4
Tsegede	14,525	9,291	16,410	1.13	83,125	2.79	2
Central Tigray Zone	215,944	186,325	793,572	3.67	7,734,881	2.21	3
Mereb Lehe	18,067	17,409	66,805	3.70	816,119	3.11	3
Ahiferom	33,102	25,463	100,526	3.04	855,260	2.19	3
Werie Lehe	26,501	25,578	138,352	5.22	1,269,337	1.66	4
Adwa	23,097	21,594	93,749	4.06	1,040,031	2.41	2
Laelay Maychew	14,111	13,378	64,173	4.55	1,097,023	3.28	5
Tahtay Maychew	17,434	14,382	51,786	2.97	483,396	2.53	3
Naeder Adet	21,093	19,492	79,610	3.77	584,383	1.73	3
Kola Temben	26,373	23,911	109,865	4.17	734,101	1.39	3
Degua Temben	21,674	12,259	35,704	1.65	333,247	3.06	4
Tanqu Abergele	14,492	12,860	53,002	3.66	521,986	2.43	4
East Tigray Zone	118,426	61,673	198,731	1.68	1,995,417	3.29	7
Gulumahada	15,512	10,737	34,244	2.21	375,043	3.34	13
Erob	3,581	1,538	5,169	1.44	76,799	4.77	16
Saesi Tsaedamba	23,698	7,982	22,644	0.96	190,477	3.05	3
Ganta Afeshum	20,201	16,211	59,269	2.93	577,487	2.71	6
Hawzen	20,539	8,422	29,244	1.42	314,841	3.27	3
Wukro	14,563	9,778	32,202	2.21	193,146	1.83	*
Atsbi Wenberta	20,332	7,005	15,958	0.78	267,623	8.17	3
South Tigray Zone	170,821	60,037	126,054	0.74	1,206,076	4.76	4
Seharte Samre	22,394	9,908	24,072	1.07	173,621	3.13	7
Enderta	21,353	3,856	6,642	0.31	72,888	6.64	4
Hintalo Wajirat	27,944	3,565	6,245	0.22	134,369	15.59	7
Ambalage	19,962	6,191	11,308	0.57	57,216	2.60	3
Endamehoni	16,810	5,777	12,154	0.72	*	*	2
Rayaaazebo	19,926	8,682	16,358	0.82	192,408	6.07	3
Alamata	14,537	8,875	17,004	1.17	119,242	3.81	4
Wofla	27,895	13,182	32,270	1.16	274,213	3.68	5

TABLE 8.32A: - Number of Holders Reporting 'Gottera' Owned, Quantity Reported, Replacement Value and Storage Capacity, 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 Per 'Gottera' (Quintal)
Tigray Region	671,737	213,453	549,341	0.82	10,209,638	8.83	8
West Tigray Zone	166,544	113,707	305,231	1.83	5,595,052	7.22	6
Kafta	10,056	3,501	4,811	0.48	127,454	19.59	10
Tahtay Adiyabo	15,775	4,497	10,212	0.65	351,202	14.52	7
Laelay Adiyabo	20,677	14,377	42,021	2.03	709,070	6.06	6
Tahtay Koraro	13,471	9,058	36,367	2.70	512,760	4.15	5
Medebay Zana	22,348	15,799	56,722	2.54	575,593	2.86	4
Asegede Tsimbela	20,570	14,837	36,609	1.78	935,084	10.44	6
Tselemti	27,248	21,350	54,100	1.99	1,010,029	7.21	5
Welkait	21,875	16,737	34,590	1.58	767,086	10.12	8
Tsegede	14,525	13,551	29,800	2.05	606,774	9.09	7
Central Tigray Zone	215,944	28,050	95,710	0.44	1,626,550	7.25	9
Mereb Lehe	18,067	485	1,169	0.06	*	*	3
Ahiferom	33,102	3,136	15,106	0.46	*	2.26	2
Werie Lehe	26,501	*	*	*	*	*	*
Adwa	23,097	*	*	*	*	*	*
Laelay Maychew	14,111	129	516	0.04	*	4.64	*
Tahtay Maychew	17,434	3,393	11,298	0.65	129,596	3.42	6
Naeder Adet	21,093	*	*	*	*	*	*
Kola Temben	26,373	7,272	29,882	1.13	409,626	3.11	5
Degua Temben	21,674	5,114	11,468	0.53	142,618	5.39	5
Tanqu Abergele	14,492	4,244	10,640	0.73	216,947	8.15	6
East Tigray Zone	118,426	19,199	61,989	0.52	829,925	5.28	5
Gulumahada	15,512	1,387	4,079	0.26	30,157	2.59	*
Erob	3,581	344	809	0.23	20,553	13.10	3
Saesi Tsaedamba	23,698	4,356	10,429	0.44	132,669	5.56	3
Ganta Afeshum	20,201	*	*	*	*	*	*
Hawzen	20,539	10,439	41,340	2.01	456,283	2.65	4
Wukro	14,563	570	1,627	0.11	20,956	4.65	6
Atsbi Wenberta	20,332	1,880	3,098	0.15	165,269	42.01	7
South Tigray Zone	170,821	52,496	86,410	0.51	2,158,110	18.84	14
Seharte Samre	22,394	8,201	21,301	0.95	205,149	3.68	9
Enderta	21,353	399	557	0.03	*	*	*
Hintalo Wajirat	27,944	9,422	17,430	0.62	437,824	17.19	12
Ambalage	19,962	5,124	8,397	0.42	155,820	13.89	9
Endamehoni	16,810	6,157	10,272	0.61	210,718	14.65	10
Rayaaazebo	19,926	8,275	9,551	0.48	552,914	49.80	23
Alamata	14,537	6,167	7,317	0.50	240,209	27.84	14
Wofla	27,895	8,750	11,586	0.42	332,365	24.43	15

TABLE 8.33A: - Number of Holders Reporting 'Gudguad' Owned, Quantity Reported, Replacement Value and Storage Capacity, 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 Per 'Gudguad' (Quintal)
Tigray Region	671,737	22,633	31,182	0.05	912,175	23.52	18
West Tigray Zone	166,544	324	*	*	*	*	*
Kafta	10,056	*	*	*	*	*	*
Tahtay Adiyabo	15,775	-	-	-	-	-	-
Laelay Adiyabo	20,677	-	-	-	-	-	-
Tahtay Koraro	13,471	*	*	*	*	*	-
Medebay Zana	22,348	*	*	*	*	*	*
Asegede Tsimbela	20,570	*	*	*	*	*	*
Tselemti	27,248	-	-	-	-	-	-
Welkait	21,875	-	-	-	-	-	-
Tsegede	14,525	*	*	*	*	*	*
Central Tigray Zone	215,944	944	2,683	0.01	47,623	9.61	5
Mereb Lehe	18,067	*	*	*	*	*	*
Ahiferom	33,102	*	*	*	*	*	*
Werie Lehe	26,501	-	-	-	-	-	-
Adwa	23,097	*	*	*	12,151	*	*
Laelay Maychew	14,111	*	*	*	*	*	*
Tahtay Maychew	17,434	*	*	*	*	*	*
Naeder Adet	21,093	401	*	*	19,309	*	*
Kola Temben	26,373	*	*	*	*	*	*
Degua Temben	21,674	*	*	*	*	*	*
Tanqu Abergele	14,492	89	*	*	*	*	*
East Tigray Zone	118,426	830	1,928	0.02	25,137	6.10	*
Gulumahada	15,512	*	*	*	*	*	*
Erob	3,581	-	-	-	-	-	-
Saesi Tsaedamba	23,698	*	*	*	*	*	*
Ganta Afeshum	20,201	145	*	*	*	*	2
Hawzen	20,539	-	-	-	-	-	-
Wukro	14,563	-	-	-	-	-	-
Atsbi Wenberta	20,332	*	*	*	12,230	*	*
South Tigray Zone	170,821	20,535	25,159	0.15	769,200	25.42	19
Seharte Samre	22,394	*	*	*	7,270	*	*
Enderta	21,353	190	245	0.01	*	20.24	5
Hintalo Wajirat	27,944	535	801	0.03	*	*	*
Ambalage	19,962	*	*	*	*	*	*
Endamehoni	16,810	-	-	-	-	-	-
Rayaaazebo	19,926	13,730	15,989	0.80	546,271	29.12	21
Alamata	14,537	5,600	6,847	0.47	130,453	16.76	14
Wofla	27,895	173	*	*	1,459	*	*

TABLE 8. 34 A - Number of Holders Reporting Modern Storage Facilities Owned, Quantity Reported, Replacement Value and Storage Capacity, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Modern Storages Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Modern Storage (Birr)	Average Storage Capacity Per Modern Storage (Quintal)
Tigray Region	671,737	1,141	2,785	0.00	42,732	6.95	7
West Tigray Zone	166,544	524	1,044	0.01	17,731	8.14	5
Kafta	10,056	-	-	-	-	-	-
Tahtay Adiyabo	15,775	*	*	*	*	*	*
Laelay Adiyabo	20,677	*	*	*	*	*	*
Tahtay Koraro	13,471	*	*	*	*	*	*
Medebay Zana	22,348	-	-	-	-	-	-
Asegede Tsimbela	20,570	*	*	*	*	*	*
Tselemti	27,248	*	*	*	*	*	*
Welkait	21,875	189	280	0.01	2,758	6.70	5
Tsegede	14,525	*	*	*	*	*	*
Central Tigray Zone	215,944	213	827	0.00	*	2.35	3
Mereb Lehe	18,067	-	-	-	-	-	-
Ahiferom	33,102	*	*	*	*	*	*
Werie Lehe	26,501	-	-	-	-	-	-
Adwa	23,097	*	*	*	*	*	*
Laelay Maychew	14,111	-	-	-	-	-	-
Tahtay Maychew	17,434	-	-	-	-	-	-
Naeder Adet	21,093	*	*	*	*	*	*
Kola Temben	26,373	-	-	-	-	-	-
Degua Temben	21,674	*	*	*	*	*	*
Tanqu Abergele	14,492	*	*	*	*	*	*
East Tigray Zone	118,426	*	*	*	*	*	*
Gulumahada	15,512	*	*	*	*	*	-
Erob	3,581	11	11	0.00	*	*	*
Saesi Tsaedamba	23,698	*	*	*	*	*	*
Ganta Afeshum	20,201	-	-	-	-	-	-
Hawzen	20,539	*	*	*	*	*	*
Wukro	14,563	-	-	-	-	-	-
Atsbi Wenberta	20,332	-	-	-	-	-	-
South Tigray Zone	170,821	220	431	0.00	9,357	*	*
Seharte Samre	22,394	*	*	*	*	*	*
Enderta	21,353	-	-	-	-	-	-
Hintalo Wajirat	27,944	*	*	*	*	*	*
Ambalage	19,962	-	-	-	-	-	-
Endamehoni	16,810	*	*	*	*	*	*
Rayaazebo	19,926	-	-	-	-	-	-
Alamata	14,537	*	*	*	*	*	*
Wofla	27,895	-	-	-	-	-	-

STATISTICAL TABLES PRESENTING THE CENSUS
RESULTS AT
ZONAL AND WOREDA LEVELS

Tables 8.1B- 8.34B

Table 8.1B:- Number distribution 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	%
Tigray Region.....	190,419	28.35	316,419	47.10	131,391	19.56	23,935	3.56	7,071	1.05	2,502	0.37
West Tigray Zone.....	26,196	15.73	90,113	54.11	39,103	23.48	7,229	4.34	2,905	1.74	998	0.60
Kafta.....	942	9.37	4,296	42.72	2,963	29.46	890	8.85	632	6.28	333	3.31
Tahtay Adiyabo.....	1,899	12.04	8,252	52.31	4,483	28.42	874	5.54	246	1.56	21	0.13
Laelay Adiyabo.....	3,618	17.50	11,947	57.78	4,382	21.19	499	2.41	141	0.68	90	0.44
Tahtay Koraro.....	2,703	20.07	7,216	53.57	2,546	18.90	562	4.17	306	2.27	138	1.02
Medebay Zana.....	4,949	22.15	10,694	47.85	5,500	24.61	1,003	4.49	175	0.78	27	0.12
Asegeda Tsimbela.....	2,305	11.21	12,559	61.05	4,610	22.41	622	3.02	415	2.02	59	0.29
Tselemti.....	5,800	21.29	16,277	59.74	4,077	14.96	846	3.10	212	0.78	36	0.13
Welkait.....	2,803	12.81	11,118	50.83	5,690	26.01	1,329	6.08	658	3.01	277	1.27
Tsegede.....	1,180	8.12	7,754	53.38	4,851	33.40	603	4.15	119	0.82	18	0.12
Central Tigray Zone.....	59,462	27.54	95,378	44.17	47,590	22.04	9,450	4.38	3,072	1.42	992	0.46
Mereb Lehe.....	2,800	15.50	7,220	39.96	6,113	33.84	1,204	6.66	591	3.27	139	0.77
Ahiferom.....	11,078	33.47	13,471	40.70	6,599	19.94	1,448	4.37	271	0.82	235	0.71
Werie Lehe.....	6,478	24.44	12,067	45.53	6,026	22.74	1,260	4.75	560	2.11	110	0.42
Adwa.....	6,406	27.74	9,728	42.12	5,345	23.14	1,053	4.56	440	1.91	125	0.54
Laelay Maychew.....	4,284	30.36	6,034	42.76	2,906	20.59	557	3.95	219	1.55	111	0.79
Tahtay Maychew.....	6,102	35.00	8,600	49.33	2,339	13.42	351	2.01	42	0.24	-	-
Naeder Adet.....	7,555	35.82	9,579	45.41	3,297	15.63	521	2.47	104	0.49	37	0.18
Kola Temben.....	6,271	23.78	13,253	50.25	5,609	21.27	857	3.25	314	1.19	69	0.26
Degua Temben.....	6,008	27.72	9,209	42.49	4,995	23.05	1,167	5.38	166	0.77	129	0.60
Tanqu Abergele.....	2,482	17.13	6,217	42.90	4,360	30.09	1,030	7.11	366	2.53	37	0.26
East Tigray Zone.....	49,944	42.17	52,352	44.21	13,700	11.57	2,019	1.70	302	0.26	109	0.09
Gulumahada.....	7,537	48.59	5,610	36.17	2,043	13.17	299	1.93	23	0.15	-	-
Erob.....	986	27.53	1,950	54.45	523	14.60	116	3.24	6	0.17	-	-
Saesi Tsaedamba.....	9,988	42.15	11,034	46.56	2,506	10.57	170	0.72	-	-	-	-
Ganta Afeshum.....	9,480	46.93	9,284	45.96	1,382	6.84	55	0.27	-	-	-	-
Hawzen.....	9,131	44.46	9,294	45.25	1,682	8.19	238	1.16	106	0.52	88	0.43
Wukro.....	6,170	42.37	5,669	38.93	2,291	15.73	384	2.64	28	0.19	21	0.14
Atsbi Wenberta.....	6,652	32.72	9,512	46.78	3,273	16.10	756	3.72	139	0.68	-	-
South Tigray Zone.....	54,814	32.09	78,576	46.00	30,998	18.15	5,238	3.07	792	0.46	403	0.24
Seharte Samre.....	6,153	27.48	10,016	44.73	5,118	22.85	843	3.76	144	0.64	120	0.54
Enderta.....	8,021	37.56	8,640	40.46	3,953	18.51	612	2.87	127	0.59	-	-
Hintalo Wajirat.....	10,223	36.58	12,224	43.74	4,529	16.21	864	3.09	33	0.12	71	0.25
Ambalage.....	8,341	41.78	8,548	42.82	2,775	13.90	215	1.08	57	0.29	26	0.13
Endamehoni.....	5,702	33.92	8,338	49.60	2,409	14.33	289	1.72	41	0.24	31	0.18
Rayaaazebo.....	4,477	22.47	7,632	38.30	5,783	29.02	1,529	7.67	350	1.76	155	0.78
Alamata.....	3,900	26.83	7,311	50.29	2,916	20.06	410	2.82	-	-	-	-
Wofla.....	8,000	28.68	15,866	56.88	3,514	12.60	476	1.71	39	0.14	-	-

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	%
Tigray Region	387,888	57.74	253,126	37.68	28,621	4.26	1,756	0.26	257	0.04	89	0.01
West Tigray Zone	83,587	50.19	71,690	43.05	10,359	6.22	825	0.50	54	0.03	29	0.02
Kafta	8,004	79.59	1,624	16.15	335	3.33	82	0.82	-	-	11	0.11
Tahtay Adiyabo	11,881	75.32	3,662	23.21	232	1.47	-	-	-	-	-	-
Laelay Adiyabo	11,050	53.44	8,928	43.18	634	3.07	65	0.31	-	-	-	-
Tahtay Koraro	7,178	53.28	5,498	40.81	688	5.11	89	0.66	-	-	18	0.13
Medebay Zana	7,637	34.17	12,547	56.14	2,084	9.33	55	0.25	25	0.11	-	-
Asegede Tsimbela	11,008	53.51	7,601	36.95	1,672	8.13	261	1.27	28	0.14	-	-
Tselemti	7,533	27.65	16,773	61.56	2,740	10.06	202	0.74	-	-	-	-
Welkait	10,344	47.29	9,977	45.61	1,483	6.78	71	0.32	-	-	-	-
Tsegede	8,955	61.65	5,079	34.97	491	3.38	-	-	-	-	-	-
Central Tigray Zone	105,443	48.83	98,128	45.44	11,431	5.29	736	0.34	146	0.07	60	0.03
Mereb Lehe	5,925	32.79	10,828	59.93	1,295	7.17	19	0.11	-	-	-	-
Ahiferom	16,028	48.42	15,682	47.37	1,268	3.83	99	0.30	25	0.08	-	-
Werie Lehe	14,196	53.57	11,238	42.41	1,036	3.91	31	0.12	-	-	-	-
Adwa	12,249	53.03	9,399	40.69	1,301	5.63	26	0.11	99	0.43	23	0.10
Laelay Maychew	6,606	46.81	6,653	47.15	798	5.66	54	0.38	-	-	-	-
Tahtay Maychew	10,929	62.69	6,049	34.70	433	2.48	23	0.13	-	-	-	-
Naeder Adet	6,624	31.40	12,461	59.08	1,890	8.96	118	0.56	-	-	-	-
Kola Temben	12,454	47.22	11,772	44.64	1,863	7.06	247	0.94	-	-	37	0.14
Degua Temben	15,690	72.39	5,641	26.03	314	1.45	29	0.13	-	-	-	-
Tanqu Abergele	4,742	32.72	8,406	58.00	1,233	8.51	89	0.61	22	0.15	-	-
East Tigray Zone	103,738	87.60	13,673	11.55	939	0.79	76	0.06	-	-	-	-
Gulumahada	12,837	82.76	2,416	15.58	232	1.50	27	0.17	-	-	-	-
Erob	3,451	96.37	125	3.49	-	-	5	0.14	-	-	-	-
Saesi Tsaedamba	21,574	91.04	2,060	8.69	64	0.27	-	-	-	-	-	-
Ganta Afeshum	13,206	65.37	6,368	31.52	583	2.89	44	0.22	-	-	-	-
Hawzen	19,871	96.75	627	3.05	41	0.20	-	-	-	-	-	-
Wukro	12,754	87.58	1,790	12.29	19	0.13	-	-	-	-	-	-
Atsbi Wenberta	20,045	98.59	287	1.41	-	-	-	-	-	-	-	-
South Tigray Zone	95,117	55.68	69,636	40.77	5,892	3.45	119	0.07	57	0.03	-	-
Seharte Samre	14,192	63.37	7,228	32.28	974	4.35	-	-	-	-	-	-
Enderta	18,220	85.33	3,007	14.08	126	0.59	-	-	-	-	-	-
Hintalo Wajirat	17,720	63.41	9,446	33.80	706	2.53	36	0.13	36	0.13	-	-
Ambalage	8,649	43.33	10,088	50.54	1,225	6.14	-	-	-	-	-	-
Endamehoni	8,555	50.89	7,837	46.62	397	2.36	-	-	21	0.12	-	-
Rayaazebo	10,104	50.71	8,859	44.46	879	4.41	84	0.42	-	-	-	-
Alamata	5,142	35.37	8,500	58.47	895	6.16	-	-	-	-	-	-
Wofla	12,535	44.94	14,671	52.59	689	2.47	-	-	-	-	-	-

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	%
Tigray Region	380,901	56.70	273,463	40.71	16,108	2.40	980	0.15	170	0.03	115	0.02
West Tigray Zone	91,635	55.02	69,960	42.01	4,418	2.65	334	0.20	102	0.06	95	0.06
Kafta	6,477	64.41	3,203	31.85	210	2.09	90	0.89	29	0.29	47	0.47
Tahtay Adiyabo	4,367	27.68	10,093	63.98	1,263	8.01	17	0.11	35	0.22	-	-
Laelay Adiyabo	9,207	44.53	10,994	53.17	450	2.18	26	0.13	-	-	-	-
Tahtay Koraro	7,008	52.02	5,897	43.78	516	3.83	50	0.37	-	-	-	-
Medebay Zana	8,587	38.42	12,936	57.88	797	3.57	28	0.13	-	-	-	-
Asegede Tsimbela	8,451	41.08	11,111	54.02	848	4.12	122	0.59	38	0.18	-	-
Tselemti	19,864	72.90	7,138	26.20	198	0.73	-	-	-	-	48	0.18
Welkait	16,727	76.47	5,118	23.40	30	0.14	-	-	-	-	-	-
Tsegede	10,950	75.39	3,470	23.89	105	0.72	-	-	-	-	-	-
Central Tigray Zone	113,192	52.42	96,933	44.89	5,416	2.51	383	0.18	-	-	20	0.01
Mereb Lehe	8,950	49.54	8,890	49.21	227	1.26	-	-	-	-	-	-
Ahiferom	18,840	56.91	13,766	41.59	424	1.28	72	0.22	-	-	-	-
Werie Lehe	12,935	48.81	12,256	46.25	1,310	4.94	-	-	-	-	-	-
Adwa	11,458	49.61	10,991	47.59	601	2.60	47	0.20	-	-	-	-
Laelay Maychew	6,465	45.82	7,238	51.29	373	2.64	35	0.25	-	-	-	-
Tahtay Maychew	8,351	47.90	8,840	50.71	156	0.89	67	0.38	-	-	20	0.11
Naeder Adet	9,810	46.51	10,575	50.14	617	2.93	91	0.43	-	-	-	-
Kola Temben	13,688	51.90	11,587	43.94	1,029	3.90	69	0.26	-	-	-	-
Degua Temben	15,638	72.15	5,699	26.29	337	1.55	-	-	-	-	-	-
Tanqu Abergele	7,060	48.72	7,091	48.93	341	2.35	-	-	-	-	-	-
East Tigray Zone	59,788	50.49	54,668	46.16	3,790	3.20	141	0.12	39	0.03	-	-
Gulumahada	7,933	51.14	7,122	45.91	457	2.95	-	-	-	-	-	-
Erob	1,270	35.46	2,217	61.91	94	2.62	-	-	-	-	-	-
Saesi Tsaedamba	10,728	45.27	12,204	51.50	734	3.10	32	0.14	-	-	-	-
Ganta Afeshum	10,007	49.54	9,470	46.88	702	3.48	22	0.11	-	-	-	-
Hawzen	9,222	44.90	10,026	48.81	1,239	6.03	52	0.25	-	-	-	-
Wukro	8,974	61.62	5,407	37.13	156	1.07	9	0.06	17	0.12	-	-
Atsbi Wenberta	11,655	57.32	8,222	40.44	407	2.00	26	0.13	22	0.11	-	-
South Tigray Zone	116,283	68.07	51,902	30.38	2,484	1.45	123	0.07	29	0.02	-	-
Seharte Samre	12,427	55.49	9,236	41.24	705	3.15	26	0.12	-	-	-	-
Enderta	12,644	59.21	8,407	39.37	302	1.41	-	-	-	-	-	-
Hintalo Wajirat	20,780	74.36	6,651	23.80	439	1.57	74	0.26	-	-	-	-
Ambalage	15,861	79.46	4,030	20.19	71	0.36	-	-	-	-	-	-
Endamehoni	13,040	77.57	3,701	22.02	69	0.41	-	-	-	-	-	-
Rayaaazebo	12,271	61.58	7,341	36.84	285	1.43	-	-	29	0.15	-	-
Alamata	9,448	64.99	4,842	33.31	225	1.55	22	0.15	-	-	-	-
Wofla	19,814	71.03	7,692	27.57	389	1.39	-	-	-	-	-	-

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	%
Tigray Region	614,067	91.41	46,023	6.85	9,301	1.38	1,562	0.23	539	0.08	245	0.04
West Tigray Zone	143,075	85.91	18,806	11.29	3,827	2.30	590	0.35	185	0.11	61	0.04
Kafta	8,157	81.12	1,720	17.10	147	1.46	32	0.32	-	-	-	-
Tahtay Adiyabo	15,167	96.15	589	3.73	19	0.12	-	-	-	-	-	-
Laelay Adiyabo	17,106	82.73	3,113	15.06	368	1.78	45	0.22	45	0.22	-	-
Tahtay Koraro	11,106	82.44	1,711	12.70	427	3.17	132	0.98	58	0.43	37	0.27
Medebay Zana	19,887	88.99	1,925	8.61	515	2.30	21	0.09	-	-	-	-
Asegede Tsimbela	16,516	80.29	2,869	13.95	824	4.01	297	1.44	40	0.19	24	0.12
Tselemti	22,785	83.62	3,582	13.15	839	3.08	-	-	42	0.15	-	-
Welkait	19,169	87.63	2,171	9.92	473	2.16	62	0.28	-	-	-	-
Tsegede	13,185	90.77	1,125	7.75	215	1.48	-	-	-	-	-	-
Central Tigray Zone	197,681	91.54	13,387	6.20	3,695	1.71	784	0.36	272	0.13	125	0.06
Mereb Lehe	15,200	84.13	2,334	12.92	404	2.24	24	0.13	81	0.45	24	0.13
Ahiferom	32,953	99.55	114	0.34	35	0.11	-	-	-	-	-	-
Werie Lehe	26,091	98.45	354	1.34	28	0.11	28	0.11	-	-	-	-
Adwa	21,959	95.07	703	3.04	339	1.47	48	0.21	-	-	48	0.21
Laelay Maychew	13,847	98.13	246	1.74	18	0.13	-	-	-	-	-	-
Tahtay Maychew	15,864	90.99	752	4.31	542	3.11	153	0.88	105	0.60	18	0.10
Naeder Adet	20,716	98.21	323	1.53	54	0.26	-	-	-	-	-	-
Kola Temben	20,650	78.30	4,076	15.46	1,099	4.17	446	1.69	68	0.26	34	0.13
Degua Temben	18,952	87.44	2,053	9.47	642	2.96	27	0.12	-	-	-	-
Tanqu Abergele	11,452	79.02	2,431	16.77	534	3.68	57	0.39	18	0.12	-	-
East Tigray Zone	113,387	95.75	3,934	3.32	944	0.80	129	0.11	32	0.03	-	-
Gulumahada	14,171	91.36	1,167	7.52	135	0.87	39	0.25	-	-	-	-
Erob	3,481	97.21	100	2.79	-	-	-	-	-	-	-	-
Saesi Tsaedamba	22,514	95.00	992	4.19	96	0.41	64	0.27	32	0.14	-	-
Ganta Afeshum	18,798	93.05	870	4.31	507	2.51	26	0.13	-	-	-	-
Hawzen	19,848	96.64	485	2.36	206	1.00	-	-	-	-	-	-
Wukro	14,299	98.19	264	1.81	-	-	-	-	-	-	-	-
Atsbi Wenberta	20,277	99.73	55	0.27	-	-	-	-	-	-	-	-
South Tigray Zone	159,920	93.62	9,897	5.79	835	0.49	59	0.03	51	0.03	59	0.03
Seharte Samre	20,841	93.07	1,165	5.20	240	1.07	59	0.26	30	0.13	59	0.26
Enderta	20,279	94.97	1,017	4.76	57	0.27	-	-	-	-	-	-
Hintalo Wajirat	26,527	94.93	1,417	5.07	-	-	-	-	-	-	-	-
Ambalage	19,464	97.51	475	2.38	23	0.12	-	-	-	-	-	-
Endamehoni	16,342	97.22	368	2.19	79	0.47	-	-	21	0.12	-	-
Rayaazebo	16,212	81.36	3,395	17.04	319	1.60	-	-	-	-	-	-
Alamata	13,500	92.87	999	6.87	38	0.26	-	-	-	-	-	-
Wofla	26,756	95.92	1,060	3.80	79	0.28	-	-	-	-	-	-

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	%
Tigray Region	583,513	86.87	49,152	7.32	25,382	3.78	8,795	1.31	3,029	0.45	1,866	0.28
West Tigray Zone	139,180	83.57	13,908	8.35	8,339	5.01	3,376	2.03	1,010	0.61	731	0.44
Kafta	8,504	84.57	1,130	11.24	245	2.44	94	0.93	43	0.43	40	0.40
Tahtay Adiyabo	13,042	82.68	2,384	15.11	319	2.02	30	0.19	-	-	-	-
Laelay Adiyabo	16,693	80.73	1,972	9.54	1,506	7.28	377	1.82	87	0.42	42	0.20
Tahtay Koraro	9,113	67.65	1,161	8.62	1,610	11.95	856	6.35	488	3.62	243	1.80
Medebay Zana	17,411	77.91	1,663	7.44	1,943	8.69	820	3.67	188	0.84	323	1.45
Asegede Tsimbela	14,790	71.90	2,824	13.73	1,805	8.77	864	4.20	204	0.99	83	0.40
Tselemti	24,069	88.33	2,117	7.77	783	2.87	279	1.02	-	-	-	-
Welkait	21,150	96.69	554	2.53	115	0.53	56	0.26	-	-	-	-
Tsegede	14,408	99.19	104	0.72	13	0.09	-	-	-	-	-	-
Central Tigray Zone	190,127	88.04	13,716	6.35	7,565	3.50	2,625	1.22	1,240	0.57	671	0.31
Mereb Lehe	15,649	86.62	1,890	10.46	489	2.71	-	-	39	0.22	-	-
Ahiferom	30,734	92.85	1,237	3.74	583	1.76	388	1.17	40	0.12	120	0.36
Werie Lehe	22,862	86.27	2,347	8.86	920	3.47	247	0.93	92	0.35	33	0.12
Adwa	19,604	84.88	2,597	11.24	654	2.83	145	0.63	97	0.42	-	-
Laelay Maychew	13,075	92.66	780	5.53	211	1.50	45	0.32	-	-	-	-
Tahtay Maychew	15,510	88.96	836	4.80	796	4.57	195	1.12	97	0.56	-	-
Naeder Adet	19,403	91.99	612	2.90	776	3.68	302	1.43	-	-	-	-
Kola Temben	20,458	77.57	1,987	7.53	2,110	8.00	798	3.03	561	2.13	459	1.74
Degua Temben	20,637	95.22	613	2.83	244	1.13	108	0.50	72	0.33	-	-
Tanqu Abergele	12,195	84.15	818	5.64	781	5.39	396	2.73	242	1.67	60	0.41
East Tigray Zone	96,416	81.41	12,926	10.91	6,386	5.39	1,904	1.61	543	0.46	251	0.21
Gulumahada	13,059	84.19	1,490	9.61	779	5.02	120	0.77	27	0.17	37	0.24
Erob	3,016	84.22	486	13.57	53	1.48	21	0.59	5	0.14	-	-
Saesi Tsaedamba	17,051	71.95	4,320	18.23	1,706	7.20	535	2.26	86	0.36	-	-
Ganta Afeshum	19,101	94.55	864	4.28	184	0.91	22	0.11	30	0.15	-	-
Hawzen	15,593	75.92	2,553	12.43	1,436	6.99	639	3.11	199	0.97	119	0.58
Wukro	10,926	75.03	1,914	13.14	1,077	7.40	392	2.69	159	1.09	95	0.65
Atsbi Wenberta	17,668	86.90	1,300	6.39	1,152	5.67	175	0.86	37	0.18	-	-
South Tigray Zone	157,788	92.37	8,602	5.04	3,092	1.81	891	0.52	235	0.14	213	0.12
Seharte Samre	18,876	84.29	1,330	5.94	1,315	5.87	557	2.49	165	0.74	151	0.67
Enderta	19,038	89.16	1,723	8.07	459	2.15	105	0.49	-	-	28	0.13
Hintalo Wajirat	26,340	94.26	920	3.29	504	1.80	145	0.52	-	-	35	0.13
Ambalage	18,408	92.22	1,175	5.89	314	1.57	46	0.23	19	0.10	-	-
Endamehoni	15,026	89.39	1,344	8.00	381	2.27	38	0.23	21	0.12	-	-
Rayaaazebo	18,372	92.20	1,467	7.36	87	0.44	-	-	-	-	-	-
Alamata	14,296	98.34	241	1.66	-	-	-	-	-	-	-	-
Wofla	27,430	98.33	403	1.44	31	0.11	-	-	31	0.11	-	-

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	%
Tigray Region	328,361	48.88	264,926	39.44	56,000	8.34	14,922	2.22	4,827	0.72	2,701	0.40
West Tigray Zone	76,701	46.05	65,848	39.54	17,041	10.23	4,670	2.80	1,400	0.84	884	0.53
Kafta	7,050	70.11	2,091	20.79	552	5.49	166	1.65	51	0.51	146	1.45
Tahtay Adiyabo	5,202	32.98	9,708	61.54	828	5.25	37	0.23	-	-	-	-
Laelay Adiyabo	10,724	51.86	7,762	37.54	1,542	7.46	509	2.46	105	0.51	35	0.17
Tahtay Koraro	6,575	48.81	4,816	35.75	1,072	7.96	552	4.10	308	2.29	148	1.10
Medebay Zana	8,040	35.98	9,728	43.53	3,276	14.66	1,013	4.53	176	0.79	115	0.51
Asegede Tsimbela	8,309	40.39	9,633	46.83	2,017	9.81	337	1.64	154	0.75	120	0.58
Tselemti	12,086	44.36	8,140	29.87	4,685	17.19	1,492	5.48	524	1.92	321	1.18
Welkait	10,183	46.55	8,732	39.92	2,445	11.18	435	1.99	80	0.37	-	-
Tsegede	8,534	58.75	5,237	36.06	625	4.30	129	0.89	-	-	-	-
Central Tigray Zone	107,914	49.97	77,266	35.78	19,630	9.09	7,311	3.39	2,493	1.15	1,330	0.62
Mereb Lehe	8,781	48.60	8,759	48.48	424	2.35	80	0.44	-	-	23	0.13
Ahiferom	18,034	54.48	10,956	33.10	2,672	8.07	1,122	3.39	221	0.67	97	0.29
Werie Lehe	14,541	54.87	10,534	39.75	1,246	4.70	120	0.45	60	0.23	-	-
Adwa	11,481	49.71	8,526	36.91	2,057	8.91	745	3.23	188	0.81	100	0.43
Laelay Maychew	6,901	48.91	5,356	37.96	1,130	8.01	408	2.89	226	1.60	90	0.64
Tahtay Maychew	9,759	55.98	6,563	37.64	718	4.12	252	1.45	117	0.67	25	0.14
Naeder Adet	7,965	37.76	7,894	37.42	3,881	18.40	1,061	5.03	170	0.81	122	0.58
Kola Temben	10,147	38.47	8,300	31.47	4,215	15.98	2,416	9.16	877	3.33	418	1.58
Degua Temben	14,569	67.22	5,384	24.84	1,177	5.43	217	1.00	118	0.54	209	0.96
Tanqu Abergele	5,737	39.59	4,994	34.46	2,110	14.56	888	6.13	517	3.57	246	1.70
East Tigray Zone	61,362	51.81	52,018	43.92	4,389	3.71	413	0.35	166	0.14	78	0.07
Gulumahada	8,270	53.31	6,389	41.19	792	5.11	41	0.26	20	0.13	-	-
Erob	1,106	30.89	2,198	61.38	272	7.60	5	0.14	-	-	-	-
Saesi Tsaedamba	12,875	54.33	10,162	42.88	584	2.46	53	0.22	24	0.10	-	-
Ganta Afeshum	8,859	43.85	10,067	49.83	1,068	5.29	184	0.91	23	0.11	-	-
Hawzen	10,439	50.83	9,550	46.50	497	2.42	32	0.16	-	-	21	0.10
Wukro	8,734	59.97	5,494	37.73	311	2.14	-	-	-	-	24	0.16
Atsbi Wenberta	11,077	54.48	8,158	40.12	866	4.26	99	0.49	99	0.49	33	0.16
South Tigray Zone	82,383	48.23	69,793	40.86	14,939	8.75	2,529	1.48	768	0.45	409	0.24
Seharte Samre	11,443	51.10	7,878	35.18	2,457	10.97	471	2.10	145	0.65	-	-
Enderta	11,915	55.80	8,019	37.55	1,040	4.87	225	1.05	93	0.44	61	0.29
Hintalo Wajirat	14,147	50.63	10,334	36.98	2,681	9.59	619	2.22	131	0.47	32	0.11
Ambalage	7,664	38.39	10,183	51.01	1,830	9.17	233	1.17	52	0.26	-	-
Endamehoni	5,319	31.64	9,135	54.34	2,080	12.37	188	1.12	37	0.22	51	0.30
Rayaazebo	13,711	68.81	5,199	26.09	836	4.20	29	0.15	86	0.43	65	0.33
Alamata	9,984	68.68	3,857	26.53	696	4.79	-	-	-	-	-	-
Wofla	8,198	29.39	15,189	54.45	3,319	11.90	765	2.74	224	0.80	200	0.72

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	%
Tigray Region	140,377	20.90	149,921	22.32	211,811	31.53	36,050	5.37	90,889	13.53	42,689	6.36
West Tigray Zone	25,820	15.50	46,214	27.75	56,040	33.65	8,519	5.12	21,620	12.98	8,331	5.00
Kafta	4,848	48.21	3,202	31.84	1,659	16.50	201	2.00	137	1.36	9	0.09
Tahtay Adiyabo	2,891	18.33	2,622	16.62	5,349	33.91	837	5.31	2,753	17.45	1,323	8.39
Laelay Adiyabo	2,898	14.02	4,204	20.33	8,157	39.45	1,389	6.72	3,069	14.84	960	4.64
Tahtay Koraro	1,743	12.94	2,242	16.64	3,799	28.20	922	6.84	3,046	22.61	1,719	12.76
Medebay Zana	3,653	16.35	2,664	11.92	8,817	39.45	1,428	6.39	3,690	16.51	2,096	9.38
Asegede Tsimbela	1,506	7.32	3,709	18.03	8,730	42.44	1,751	8.51	3,540	17.21	1,334	6.49
Tselemti	2,763	10.14	8,304	30.48	10,547	38.71	1,607	5.90	3,374	12.38	653	2.40
Welkait	3,818	17.45	10,504	48.02	5,993	27.40	251	1.15	1,121	5.12	188	0.86
Tsegede	1,702	11.72	8,762	60.32	2,990	20.59	133	0.92	889	6.12	49	0.34
Central Tigray Zone	46,515	21.54	29,786	13.79	63,148	29.24	16,772	7.77	35,469	16.43	24,254	11.23
Mereb Lehe	3,045	16.85	2,812	15.56	5,721	31.67	1,692	9.37	3,560	19.70	1,237	6.85
Ahiferom	9,785	29.56	3,220	9.73	8,882	26.83	2,178	6.58	6,375	19.26	2,662	8.04
Werie Lehe	6,179	23.32	2,869	10.83	5,451	20.57	1,981	7.48	4,365	16.47	5,656	21.34
Adwa	4,330	18.75	2,583	11.18	6,767	29.30	2,147	9.30	3,507	15.18	3,763	16.29
Laelay Maychew	3,698	26.21	1,716	12.16	3,698	26.21	1,389	9.84	2,096	14.85	1,514	10.73
Tahtay Maychew	4,153	23.82	3,730	21.39	5,629	32.29	1,470	8.43	1,792	10.28	660	3.79
Naeder Adet	4,145	19.65	3,440	16.31	7,925	37.57	1,563	7.41	2,837	13.45	1,183	5.61
Kola Temben	4,489	17.02	3,857	14.62	6,963	26.40	2,213	8.39	4,501	17.07	4,350	16.49
Degua Temben	4,824	22.26	4,216	19.45	7,513	34.66	613	2.83	3,320	15.32	1,188	5.48
Tanqu Abergele	1,862	12.85	1,343	9.27	4,601	31.75	1,527	10.54	3,117	21.51	2,042	14.09
East Tigray Zone	29,597	24.99	26,025	21.98	36,392	30.73	4,519	3.82	17,123	14.46	4,770	4.03
Gulumahada	4,393	28.32	3,085	19.89	5,558	35.83	760	4.90	1,440	9.28	276	1.78
Erob	967	27.00	1,063	29.68	1,124	31.39	191	5.33	167	4.66	69	1.93
Saesi Tsaedamba	5,857	24.72	4,806	20.28	5,677	23.96	758	3.20	5,873	24.78	727	3.07
Ganta Afeshum	5,212	25.80	5,859	29.00	6,951	34.41	981	4.86	1,109	5.49	89	0.44
Hawzen	4,737	23.06	2,985	14.53	6,635	32.30	684	3.33	3,958	19.27	1,540	7.50
Wukro	3,427	23.53	3,565	24.48	4,748	32.60	600	4.12	1,473	10.11	750	5.15
Atsbi Wenberta	5,005	24.62	4,663	22.93	5,699	28.03	544	2.68	3,103	15.26	1,318	6.48
South Tigray Zone	38,443	22.50	47,896	28.04	56,232	32.92	6,240	3.65	16,676	9.76	5,334	3.12
Seharte Samre	4,235	18.91	3,831	17.11	7,496	33.47	1,629	7.27	3,138	14.01	2,065	9.22
Enderta	5,048	23.64	5,532	25.91	7,303	34.20	516	2.42	2,427	11.37	527	2.47
Hintalo Wajirat	5,708	20.43	5,926	21.21	10,671	38.19	1,148	4.11	3,417	12.23	1,074	3.84
Ambalage	5,896	29.54	5,699	28.55	6,276	31.44	532	2.67	1,321	6.62	238	1.19
Endamehoni	5,220	31.05	2,869	17.07	6,426	38.23	389	2.31	1,683	10.01	223	1.33
Rayaazebo	2,900	14.55	6,954	34.90	7,009	35.18	962	4.83	1,712	8.59	389	1.95
Alamata	2,425	16.68	5,673	39.02	4,371	30.07	223	1.53	1,486	10.22	359	2.47
Wofla	7,010	25.13	11,412	40.91	6,679	23.94	842	3.02	1,493	5.35	459	1.65

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	%
Tigray Region	141,760	21.10	222,030	33.05	194,694	28.98	67,658	10.07	29,238	4.35	16,357	2.44
West Tigray Zone	27,671	16.61	65,936	39.59	48,479	29.11	14,176	8.51	7,076	4.25	3,206	1.93
Kafta	4,960	49.32	4,101	40.78	718	7.14	208	2.07	59	0.59	10	0.10
Tahtay Adiyabo	3,044	19.30	5,885	37.31	4,725	29.95	1,148	7.28	763	4.84	210	1.33
Laelay Adiyabo	2,812	13.60	6,515	31.51	7,453	36.04	2,143	10.36	1,338	6.47	416	2.01
Tahtay Koraro	2,026	15.04	3,334	24.75	4,511	33.49	1,744	12.95	1,048	7.78	808	6.00
Medebay Zana	3,980	17.81	5,481	24.53	8,276	37.03	3,001	13.43	1,018	4.56	592	2.65
Asegede Tsimbela	1,800	8.75	7,117	34.60	6,815	33.13	2,863	13.92	1,223	5.95	752	3.66
Tselemti	3,355	12.31	11,138	40.88	9,416	34.56	1,939	7.12	1,218	4.47	182	0.67
Welkait	3,892	17.79	12,791	58.47	3,993	18.25	701	3.20	320	1.46	178	0.81
Tsegede	1,806	12.43	9,573	65.91	2,571	17.70	429	2.95	89	0.61	57	0.39
Central Tigray Zone	45,463	21.05	50,722	23.49	71,746	33.22	28,252	13.08	12,207	5.65	7,554	3.50
Mereb Lehe	3,196	17.69	4,662	25.80	7,208	39.90	1,894	10.48	716	3.96	391	2.16
Ahiferom	9,223	27.86	7,021	21.21	9,689	29.27	4,206	12.71	1,280	3.87	1,683	5.08
Werie Lehe	5,509	20.79	5,577	21.04	7,382	27.86	4,451	16.80	2,402	9.06	1,180	4.45
Adwa	4,521	19.57	4,732	20.49	7,896	34.19	3,169	13.72	1,610	6.97	1,169	5.06
Laelay Maychew	3,654	25.89	2,330	16.51	3,931	27.86	2,177	15.43	1,065	7.55	954	6.76
Tahtay Maychew	4,268	24.48	5,652	32.42	5,050	28.97	1,574	9.03	705	4.04	185	1.06
Naeder Adet	4,043	19.17	5,382	25.52	7,832	37.13	2,503	11.87	864	4.10	469	2.22
Kola Temben	4,446	16.86	6,344	24.05	10,056	38.13	3,287	12.46	1,527	5.79	713	2.70
Degua Temben	4,781	22.06	5,883	27.14	7,034	32.45	2,451	11.31	959	4.42	566	2.61
Tanqu Abergele	1,819	12.55	3,139	21.66	5,668	39.11	2,542	17.54	1,079	7.45	245	1.69
East Tigray Zone	30,541	25.79	47,318	39.96	26,601	22.46	9,382	7.92	3,377	2.85	1,207	1.02
Gulumahada	4,510	29.07	5,333	34.38	3,700	23.85	1,493	9.62	321	2.07	155	1.00
Erob	1,024	28.60	1,497	41.80	791	22.09	234	6.53	25	0.70	10	0.28
Saesi Tsadamba	6,325	26.69	11,086	46.78	4,082	17.23	1,425	6.01	619	2.61	161	0.68
Ganta Afeshum	5,175	25.62	8,727	43.20	4,470	22.13	1,344	6.65	320	1.58	165	0.82
Hawzen	4,720	22.98	7,189	35.00	5,761	28.05	2,122	10.33	577	2.81	170	0.83
Wukro	3,523	24.19	5,953	40.88	3,438	23.61	1,090	7.48	403	2.77	156	1.07
Atsbi Wenberta	5,265	25.90	7,533	37.05	4,360	21.44	1,673	8.23	1,112	5.47	389	1.91
South Tigray Zone	38,083	22.29	58,054	33.99	47,868	28.02	15,848	9.28	6,578	3.85	4,390	2.57
Seharte Samre	3,893	17.38	5,140	22.95	8,314	37.13	3,179	14.20	1,285	5.74	583	2.60
Enderta	5,146	24.10	8,354	39.12	5,700	26.69	1,521	7.12	355	1.66	277	1.30
Hintalo Wajirat	5,641	20.19	8,732	31.25	8,793	31.47	2,682	9.60	1,237	4.43	859	3.07
Ambalage	6,060	30.36	6,785	33.99	4,910	24.60	1,335	6.69	543	2.72	329	1.65
Endamehoni	5,278	31.40	5,767	34.31	3,621	21.54	1,478	8.79	411	2.44	255	1.52
Rayaazebo	2,963	14.87	5,833	29.27	6,295	31.59	2,154	10.81	1,424	7.15	1,257	6.31
Alamata	2,319	15.95	6,458	44.42	3,377	23.23	1,464	10.07	657	4.52	262	1.80
Wofla	6,784	24.32	10,986	39.38	6,858	24.59	2,035	7.30	666	2.39	566	2.03

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

Geographic area	Number of Crop holders that owned											
	No Plow-Beam		One Plow-Beam		Two Plow-Beams		Three Plow-Beams		Four Plow-Beams		Five and above Plow-Beams	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	135,257	20.14	288,348	42.93	184,777	27.51	44,451	6.62	13,215	1.97	5,689	0.85
West Tigray Zone	25,250	15.16	82,035	49.26	47,744	28.67	8,203	4.93	2,150	1.29	1,162	0.70
Kafta	4,922	48.95	4,085	40.62	780	7.76	201	2.00	50	0.50	18	0.18
Tahtay Adiyabo	2,754	17.46	7,916	50.18	4,391	27.84	518	3.28	133	0.84	63	0.40
Laelay Adiyabo	2,319	11.22	10,847	52.46	6,495	31.41	757	3.66	160	0.77	99	0.48
Tahtay Koraro	1,645	12.21	4,757	35.31	4,811	35.71	1,523	11.31	475	3.53	260	1.93
Medebay Zana	3,614	16.17	8,096	36.23	8,101	36.25	1,812	8.11	341	1.53	384	1.72
Asegede Tsimbela	1,396	6.79	8,374	40.71	8,138	39.56	1,874	9.11	535	2.60	253	1.23
Tselemti	2,873	10.54	14,710	53.99	8,605	31.58	795	2.92	234	0.86	31	0.11
Welkait	3,874	17.71	13,645	62.38	3,713	16.97	466	2.13	146	0.67	31	0.14
Tsegede	1,855	12.77	9,604	66.12	2,710	18.66	257	1.77	76	0.52	23	0.16
Central Tigray Zone	41,618	19.27	69,503	32.19	71,397	33.06	22,989	10.65	7,331	3.39	3,106	1.44
Mereb Lehe	2,725	15.08	6,055	33.51	7,155	39.60	1,632	9.03	391	2.16	109	0.60
Ahiferom	8,719	26.34	11,419	34.50	9,205	27.81	2,556	7.72	677	2.05	526	1.59
Werie Lehe	5,145	19.41	7,056	26.63	8,112	30.61	3,929	14.83	1,582	5.97	677	2.55
Adwa	3,974	17.21	7,498	32.46	7,100	30.74	3,202	13.86	980	4.24	343	1.49
Laelay Maychew	3,284	23.27	2,883	20.43	4,642	32.90	2,311	16.38	743	5.27	248	1.76
Tahtay Maychew	4,070	23.35	6,030	34.59	5,721	32.82	1,059	6.07	465	2.67	89	0.51
Naeder Adet	3,836	18.19	6,761	32.05	7,645	36.24	1,986	9.42	568	2.69	297	1.41
Kola Temben	3,288	12.47	10,298	39.05	9,049	34.31	2,503	9.49	914	3.47	321	1.22
Degua Temben	4,860	22.42	7,458	34.41	6,663	30.74	1,876	8.66	488	2.25	329	1.52
Tanqu Abergele	1,719	11.86	4,044	27.91	6,105	42.13	1,935	13.35	523	3.61	166	1.15
East Tigray Zone	30,192	25.49	64,051	54.09	19,600	16.55	3,592	3.03	613	0.52	378	0.32
Gulumahada	4,562	29.41	6,843	44.11	3,047	19.64	789	5.09	209	1.35	62	0.40
Erob	986	27.53	2,228	62.22	334	9.33	27	0.75	6	0.17	-	-
Saesi Tsadamba	6,015	25.38	14,350	60.55	2,934	12.38	342	1.44	-	-	57	0.24
Ganta Afeshum	4,916	24.34	10,896	53.94	3,484	17.25	791	3.92	68	0.34	46	0.23
Hawzen	4,866	23.69	11,511	56.04	3,409	16.60	481	2.34	136	0.66	136	0.66
Wukro	3,498	24.02	7,208	49.50	3,258	22.37	504	3.46	76	0.52	19	0.13
Atsbi Wenberta	5,349	26.31	11,015	54.18	3,134	15.41	658	3.24	118	0.58	58	0.29
South Tigray Zone	38,195	22.36	72,760	42.59	46,035	26.95	9,667	5.66	3,120	1.83	1,044	0.61
Seharte Samre	3,841	17.15	5,942	26.53	8,771	39.17	2,659	11.87	882	3.94	299	1.34
Enderta	5,156	24.15	9,498	44.48	5,423	25.40	1,027	4.81	136	0.64	113	0.53
Hintalo Wajirat	5,732	20.51	11,398	40.79	8,122	29.07	1,935	6.92	477	1.71	280	1.00
Ambalage	5,989	30.00	8,153	40.84	4,539	22.74	925	4.63	276	1.38	80	0.40
Endamehoni	5,311	31.59	7,021	41.77	3,483	20.72	629	3.74	310	1.84	56	0.33
Rayaazebo	2,814	14.12	8,936	44.85	6,603	33.14	990	4.97	476	2.39	107	0.54
Alamata	2,353	16.19	8,639	59.43	3,115	21.43	321	2.21	87	0.60	22	0.15
Wofla	6,996	25.08	13,174	47.23	5,978	21.43	1,183	4.24	477	1.71	87	0.31

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

Geographic area	Number of Crop holders that owned											
	No Plow-Tip		One Plow-Tip		Two Plow-Tips		Three Plow-Tips		Four Plow-Tips		Five and above Plow-Tips	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	135,809	20.22	405,535	60.37	117,807	17.54	10,326	1.54	1,624	0.24	636	0.09
West Tigray Zone	26,306	15.80	109,178	65.56	27,578	16.56	2,842	1.71	462	0.28	178	0.11
Kafta	4,861	48.34	4,379	43.55	705	7.01	91	0.90	20	0.20	-	-
Tahtay Adiyabo	2,765	17.53	9,175	58.16	3,563	22.59	227	1.44	26	0.16	19	0.12
Laelay Adiyabo	2,874	13.90	15,150	73.27	2,475	11.97	178	0.86	-	-	-	-
Tahtay Koraro	1,654	12.28	7,399	54.93	3,836	28.48	496	3.68	51	0.38	35	0.26
Medebay Zana	3,502	15.67	14,699	65.77	3,714	16.62	270	1.21	106	0.47	57	0.26
Asegede Tsimbela	1,556	7.56	12,265	59.63	5,661	27.52	940	4.57	112	0.54	36	0.18
Tselemti	2,978	10.93	20,236	74.27	3,691	13.55	343	1.26	-	-	-	-
Welkait	3,868	17.68	15,307	69.97	2,263	10.35	259	1.18	147	0.67	31	0.14
Tsegede	2,249	15.48	10,568	72.76	1,671	11.50	37	0.25	-	-	-	-
Central Tigray Zone	41,672	19.30	128,173	59.35	41,618	19.27	3,631	1.68	621	0.29	229	0.11
Mereb Lehe	2,640	14.61	11,892	65.82	3,308	18.31	195	1.08	32	0.18	-	-
Ahiferom	8,089	24.44	17,976	54.30	6,511	19.67	426	1.29	62	0.19	38	0.11
Werie Lehe	5,329	20.11	15,507	58.51	5,366	20.25	167	0.63	65	0.25	67	0.25
Adwa	4,155	17.99	11,969	51.82	6,114	26.47	733	3.17	24	0.10	102	0.44
Laelay Maychew	3,323	23.55	5,823	41.27	3,901	27.65	919	6.51	145	1.03	-	-
Tahtay Maychew	4,267	24.48	10,872	62.36	2,124	12.18	124	0.71	25	0.14	22	0.13
Naeder Adet	3,942	18.69	13,647	64.70	3,237	15.35	206	0.98	61	0.29	-	-
Kola Temben	3,650	13.84	18,315	69.45	4,058	15.39	315	1.19	35	0.13	-	-
Degua Temben	4,510	20.81	13,440	62.01	3,431	15.83	246	1.14	47	0.22	-	-
Tanqu Abergele	1,769	12.21	8,732	60.25	3,567	24.61	298	2.06	126	0.87	-	-
East Tigray Zone	28,296	23.89	65,422	55.24	22,420	18.93	1,895	1.60	240	0.20	153	0.13
Gulumahada	4,062	26.19	7,578	48.85	3,319	21.40	413	2.66	81	0.52	59	0.38
Erob	937	26.17	2,274	63.50	343	9.58	17	0.47	10	0.28	-	-
Saesi Tsaedamba	5,841	24.65	14,375	60.66	3,350	14.14	102	0.43	30	0.13	-	-
Ganta Afeshum	4,582	22.68	10,498	51.97	4,801	23.77	289	1.43	-	-	31	0.15
Hawzen	4,619	22.49	12,388	60.31	3,203	15.59	236	1.15	30	0.15	63	0.31
Wukro	3,375	23.18	7,811	53.64	3,266	22.43	111	0.76	-	-	-	-
Atsbi Wenberta	4,882	24.01	10,498	51.63	4,136	20.34	727	3.58	89	0.44	-	-
South Tigray Zone	39,534	23.14	102,763	60.16	26,191	15.33	1,957	1.15	300	0.18	76	0.04
Seharte Samre	3,815	17.04	12,516	55.89	5,527	24.68	401	1.79	59	0.26	76	0.34
Enderta	4,971	23.28	12,179	57.04	3,737	17.50	433	2.03	33	0.15	-	-
Hintalo Wajirat	5,743	20.55	16,811	60.16	4,861	17.40	458	1.64	71	0.25	-	-
Ambalage	6,169	30.90	11,878	59.50	1,843	9.23	72	0.36	-	-	-	-
Endamehoni	5,565	33.11	9,676	57.56	1,480	8.80	72	0.43	17	0.10	-	-
Rayaazebo	3,037	15.24	11,312	56.77	5,056	25.37	423	2.12	98	0.49	-	-
Alamata	3,163	21.76	9,608	66.09	1,645	11.32	99	0.68	22	0.15	-	-
Wofla	7,071	25.35	18,782	67.33	2,042	7.32	-	-	-	-	-	-

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	%
Tigray Region	141,351	21.04	378,997	56.42	128,436	19.12	15,791	2.35	5,181	0.77	1,981	0.29
West Tigray Zone	27,096	16.27	103,606	62.21	30,327	18.21	4,105	2.46	966	0.58	444	0.27
Kafta	4,995	49.67	4,292	42.68	683	6.79	77	0.77	9	0.09	-	-
Tahtay Adiyabo	3,102	19.66	8,423	53.39	3,700	23.45	372	2.36	178	1.13	-	-
Laelay Adiyabo	3,091	14.95	13,296	64.30	3,732	18.05	333	1.61	119	0.58	106	0.51
Tahtay Koraro	1,798	13.35	7,627	56.62	3,414	25.34	439	3.26	119	0.88	74	0.55
Medebay Zana	3,485	15.59	14,187	63.48	4,133	18.49	350	1.57	138	0.62	55	0.25
Asegede Tsimbela	1,517	7.37	11,733	57.04	5,172	25.14	1,694	8.24	309	1.50	145	0.70
Tselemti	3,156	11.58	19,141	70.25	4,360	16.00	539	1.98	-	-	52	0.19
Welkait	3,713	16.97	14,284	65.30	3,532	16.15	283	1.29	63	0.29	-	-
Tsegede	2,238	15.41	10,624	73.14	1,601	11.02	18	0.12	31	0.21	13	0.09
Central Tigray Zone	43,667	20.22	115,748	53.60	47,028	21.78	6,228	2.88	2,347	1.09	926	0.43
Mereb Lehe	2,712	15.01	10,112	55.97	4,329	23.96	704	3.90	80	0.44	130	0.72
Ahiferom	8,540	25.80	16,984	51.31	6,815	20.59	614	1.85	149	0.45	-	-
Werie Lehe	5,586	21.08	12,798	48.29	6,824	25.75	1,055	3.98	205	0.77	33	0.12
Adwa	4,268	18.48	10,145	43.92	6,204	26.86	1,161	5.03	984	4.26	335	1.45
Laelay Maychew	3,595	25.48	5,477	38.81	4,112	29.14	650	4.61	175	1.24	102	0.72
Tahtay Maychew	4,264	24.46	10,744	61.63	2,113	12.12	248	1.42	-	-	65	0.37
Naeder Adet	4,138	19.62	13,294	63.03	3,333	15.80	248	1.18	54	0.26	26	0.12
Kola Temben	3,564	13.51	16,513	62.61	5,337	20.24	830	3.15	129	0.49	-	-
Degua Temben	4,709	21.73	12,072	55.70	4,285	19.77	528	2.44	80	0.37	-	-
Tanqu Abergele	2,290	15.80	7,609	52.50	3,676	25.37	190	1.31	492	3.39	235	1.62
East Tigray Zone	31,222	26.36	62,628	52.88	20,157	17.02	2,784	2.35	1,186	1.00	449	0.38
Gulumahada	4,377	28.22	7,923	51.08	2,838	18.30	212	1.37	84	0.54	78	0.50
Erob	971	27.12	2,307	64.42	288	8.04	11	0.31	-	-	4	0.11
Saesi Tsadamba	6,175	26.06	13,832	58.37	3,247	13.70	359	1.51	57	0.24	28	0.12
Ganta Afeshum	5,254	26.01	11,219	55.54	3,223	15.95	482	2.39	23	0.11	-	-
Hawzen	5,533	26.94	9,745	47.45	4,507	21.94	599	2.92	123	0.60	32	0.16
Wukro	3,672	25.21	7,978	54.78	2,436	16.73	427	2.93	50	0.34	-	-
Atsbi Wenberta	5,243	25.79	9,622	47.32	3,618	17.79	694	3.41	848	4.17	307	1.51
South Tigray Zone	39,365	23.04	97,016	56.79	30,923	18.10	2,672	1.56	682	0.40	163	0.10
Seharte Samre	3,749	16.74	12,658	56.52	5,243	23.41	570	2.55	149	0.67	25	0.11
Enderta	5,718	26.78	11,031	51.66	4,198	19.66	232	1.09	88	0.41	86	0.40
Hintalo Wajirat	6,188	22.14	15,286	54.70	5,681	20.33	543	1.94	246	0.88	-	-
Ambalage	6,007	30.09	11,358	56.90	2,304	11.54	268	1.34	25	0.13	-	-
Endamehoni	5,269	31.34	9,219	54.84	2,064	12.28	224	1.33	34	0.20	-	-
Rayaazebo	2,918	14.64	11,054	55.48	5,486	27.53	335	1.68	101	0.51	32	0.16
Alamata	2,395	16.48	9,735	66.97	2,171	14.93	205	1.41	12	0.08	19	0.13
Wofla	7,121	25.53	16,677	59.78	3,775	13.53	296	1.06	26	0.09	-	-

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	%
Tigray Region	140,159	20.87	359,812	53.56	149,049	22.19	16,703	2.49	4,939	0.74	1,075	0.16
West Tigray Zone	25,700	15.43	90,633	54.42	43,899	26.36	4,271	2.56	1,666	1.00	375	0.23
Kafta	5,335	53.05	3,862	38.40	596	5.93	183	1.82	61	0.61	19	0.19
Tahtay Adiyabo	2,654	16.82	8,264	52.39	4,536	28.75	200	1.27	82	0.52	39	0.25
Laelay Adiyabo	2,435	11.78	11,260	54.46	6,315	30.54	356	1.72	238	1.15	73	0.35
Tahtay Koraro	1,631	12.11	6,383	47.38	4,546	33.75	637	4.73	235	1.74	39	0.29
Medebay Zana	3,538	15.83	11,363	50.85	6,704	30.00	578	2.59	138	0.62	27	0.12
Asegede Tsimbela	1,554	7.55	8,883	43.18	8,247	40.09	1,354	6.58	386	1.88	146	0.71
Tselemti	2,992	10.98	16,298	59.81	7,111	26.10	609	2.24	207	0.76	31	0.11
Welkait	3,799	17.37	14,118	64.54	3,453	15.79	232	1.06	273	1.25	-	-
Tsegede	1,765	12.15	10,203	70.24	2,391	16.46	121	0.83	45	0.31	-	-
Central Tigray Zone	42,716	19.78	104,114	48.21	58,802	27.23	7,966	3.69	1,970	0.91	376	0.17
Mereb Lehe	2,666	14.76	7,945	43.98	6,501	35.98	761	4.21	175	0.97	19	0.11
Ahiferom	9,405	28.41	17,852	53.93	5,019	15.16	562	1.70	221	0.67	43	0.13
Werie Lehe	5,353	20.20	12,542	47.33	6,995	26.40	1,199	4.52	323	1.22	89	0.34
Adwa	4,031	17.45	12,347	53.46	5,824	25.22	757	3.28	82	0.36	56	0.24
Laelay Maychew	3,261	23.11	7,219	51.16	3,303	23.41	293	2.08	35	0.25	-	-
Tahtay Maychew	4,158	23.85	9,173	52.62	3,712	21.29	233	1.34	116	0.67	42	0.24
Naeder Adet	3,970	18.82	9,687	45.93	6,711	31.82	639	3.03	56	0.27	30	0.14
Kola Temben	3,399	12.89	11,774	44.64	9,267	35.14	1,503	5.70	393	1.49	37	0.14
Degua Temben	4,810	22.19	10,873	50.17	5,237	24.16	624	2.88	93	0.43	37	0.17
Tanqu Abergele	1,666	11.50	4,701	32.44	6,233	43.01	1,395	9.63	475	3.28	22	0.15
East Tigray Zone	30,883	26.08	72,707	61.39	13,049	11.02	987	0.83	728	0.61	72	0.06
Gulumahada	4,729	30.49	9,419	60.72	1,265	8.15	59	0.38	40	0.26	-	-
Erob	932	26.03	2,380	66.46	249	6.95	14	0.39	-	-	6	0.17
Saesi Tsadamba	6,042	25.50	14,952	63.09	2,144	9.05	32	0.14	528	2.23	-	-
Ganta Afeshum	5,300	26.24	12,215	60.47	2,513	12.44	138	0.68	35	0.17	-	-
Hawzen	4,769	23.22	13,146	64.01	2,126	10.35	393	1.91	105	0.51	-	-
Wukro	3,861	26.51	8,486	58.27	2,069	14.21	128	0.88	19	0.13	-	-
Atsbi Wenberta	5,250	25.82	12,109	59.56	2,683	13.20	224	1.10	-	-	66	0.32
South Tigray Zone	40,856	23.92	92,358	54.07	33,299	19.49	3,480	2.04	576	0.34	252	0.15
Seharte Samre	4,013	17.92	10,377	46.34	6,860	30.63	914	4.08	144	0.64	86	0.38
Enderta	5,886	27.57	12,040	56.39	3,202	15.00	190	0.89	35	0.16	-	-
Hintalo Wajirat	5,978	21.39	16,035	57.38	5,213	18.66	520	1.86	119	0.43	79	0.28
Ambalage	6,499	32.56	9,933	49.76	3,065	15.35	378	1.89	60	0.30	27	0.14
Endamehoni	5,643	33.57	8,102	48.20	2,728	16.23	315	1.87	22	0.13	-	-
Rayaazebo	2,938	14.74	10,598	53.19	5,754	28.88	475	2.38	132	0.66	29	0.15
Alamata	2,376	16.34	9,362	64.40	2,367	16.28	369	2.54	63	0.43	-	-
Wofla	7,523	26.97	15,911	57.04	4,110	14.73	320	1.15	-	-	31	0.11

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	%
Tigray Region	81,778	12.17	150,397	22.39	235,452	35.05	112,209	16.70	55,141	8.21	36,760	5.47
West Tigray Zone	13,267	7.97	49,789	29.90	65,898	39.57	22,497	13.51	10,158	6.10	4,935	2.96
Kafta	902	8.97	2,987	29.70	3,559	35.39	1,387	13.79	583	5.80	638	6.34
Tahtay Adiyabo	1,854	11.75	4,447	28.19	6,476	41.05	1,969	12.48	666	4.22	363	2.30
Laelay Adiyabo	2,237	10.82	6,603	31.93	7,762	37.54	2,846	13.76	849	4.11	380	1.84
Tahtay Koraro	1,223	9.08	2,053	15.24	4,985	37.01	2,533	18.80	1,599	11.87	1,078	8.00
Medebay Zana	1,239	5.54	4,286	19.18	10,027	44.87	3,510	15.71	2,289	10.24	997	4.46
Asegede Tsimbela	1,231	5.98	4,986	24.24	8,334	40.52	3,782	18.39	1,514	7.36	723	3.51
Tselemti	1,414	5.19	10,849	39.82	11,027	40.47	2,644	9.70	1,114	4.09	200	0.73
Welkait	2,220	10.15	8,065	36.87	8,298	37.93	2,202	10.07	749	3.42	341	1.56
Tsegede	946	6.51	5,514	37.96	5,430	37.38	1,625	11.19	795	5.47	215	1.48
Central Tigray Zone	20,809	9.64	28,532	13.21	73,173	33.89	46,348	21.46	27,310	12.65	19,772	9.16
Mereb Lehe	1,415	7.83	2,922	16.17	7,851	43.45	3,261	18.05	1,699	9.40	919	5.09
Ahiferom	3,726	11.26	4,077	12.32	10,944	33.06	7,359	22.23	4,329	13.08	2,667	8.06
Werie Lehe	2,725	10.28	1,949	7.35	6,591	24.87	6,138	23.16	4,384	16.54	4,714	17.79
Adwa	3,005	13.01	2,094	9.07	6,576	28.47	5,418	23.46	3,281	14.21	2,723	11.79
Laelay Maychew	1,573	11.15	2,129	15.09	3,881	27.50	2,713	19.23	1,958	13.88	1,857	13.16
Tahtay Maychew	2,515	14.43	3,911	22.43	6,800	39.00	2,319	13.30	1,353	7.76	536	3.07
Naeder Adet	1,220	5.78	3,160	14.98	8,104	38.42	5,177	24.54	2,541	12.05	891	4.22
Kola Temben	1,364	5.17	1,898	7.20	8,214	31.15	7,093	26.89	4,649	17.63	3,155	11.96
Degua Temben	2,196	10.13	3,863	17.82	8,582	39.60	3,991	18.41	1,671	7.71	1,371	6.33
Tanqu Abergele	1,070	7.38	2,528	17.44	5,630	38.85	2,880	19.87	1,445	9.97	939	6.48
East Tigray Zone	22,117	18.68	24,288	20.51	39,735	33.55	19,497	16.46	8,162	6.89	4,627	3.91
Gulumahada	3,292	21.22	2,708	17.46	4,914	31.68	2,656	17.12	1,228	7.92	714	4.60
Erob	470	13.12	1,003	28.01	1,150	32.11	529	14.77	250	6.98	179	5.00
Saesi Tsadamba	5,042	21.28	5,833	24.61	8,141	34.35	3,319	14.01	889	3.75	474	2.00
Ganta Afeshum	3,473	17.19	3,818	18.90	7,005	34.68	3,834	18.98	1,274	6.31	797	3.95
Hawzen	3,316	16.14	2,148	10.46	7,042	34.29	4,233	20.61	2,611	12.71	1,189	5.79
Wukro	2,481	17.04	2,966	20.37	5,219	35.84	2,273	15.61	762	5.23	862	5.92
Atsbi Wenberta	4,042	19.88	5,812	28.59	6,265	30.81	2,653	13.05	1,148	5.65	412	2.03
South Tigray Zone	25,585	14.98	47,788	27.98	56,646	33.16	23,867	13.97	9,510	5.57	7,425	4.35
Seharte Samre	2,470	11.03	3,490	15.58	6,312	28.19	5,294	23.64	2,327	10.39	2,501	11.17
Enderta	3,605	16.88	4,337	20.31	7,529	35.26	3,322	15.56	1,513	7.09	1,047	4.90
Hintalo Wajirat	4,663	16.69	6,634	23.74	9,188	32.88	3,883	13.90	1,898	6.79	1,678	6.00
Ambalage	4,270	21.39	6,618	33.15	6,137	30.74	1,846	9.25	669	3.35	422	2.11
Endamehoni	3,049	18.14	5,775	34.35	5,346	31.80	1,837	10.93	531	3.16	272	1.62
Rayaazebo	2,089	10.48	8,176	41.03	6,758	33.92	1,855	9.31	678	3.40	370	1.86
Alamata	1,878	12.92	5,574	38.34	4,823	33.18	1,435	9.87	516	3.55	311	2.14
Wofla	3,562	12.77	7,183	25.75	10,553	37.83	4,395	15.76	1,379	4.94	823	2.95

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

Geographic area	Number of Crop holders that owned											
	No Hay-Fork (metal)		One Hay-Fork (metal)		Two Hay-Forks (metal)		Three Hay-Forks (metal)		Four Hay-Forks (metal)		Five and above Hay-Forks (metal)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	665,116	99.01	4,405	0.66	1,500	0.22	477	0.07	185	0.03	54	0.01
West Tigray Zone	165,161	99.17	790	0.47	428	0.26	113	0.07	52	0.03	-	-
Kafta	10,040	99.84	16	0.16	-	-	-	-	-	-	-	-
Tahtay Adiyabo	15,520	98.38	196	1.24	59	0.37	-	-	-	-	-	-
Laelay Adiyabo	20,568	99.47	85	0.41	-	-	24	0.12	-	-	-	-
Tahtay Koraro	13,380	99.32	-	-	91	0.68	-	-	-	-	-	-
Medebay Zana	22,125	99.00	116	0.52	107	0.48	-	-	-	-	-	-
Asegede Tsimbela	20,306	98.72	83	0.40	82	0.40	47	0.23	52	0.25	-	-
Tselemti	27,001	99.09	171	0.63	34	0.12	42	0.15	-	-	-	-
Welkait	21,762	99.48	56	0.26	57	0.26	-	-	-	-	-	-
Tsegede	14,458	99.54	67	0.46	-	-	-	-	-	-	-	-
Central Tigray Zone	214,103	99.15	1,296	0.60	412	0.19	114	0.05	-	-	19	0.01
Mereb Lehe	17,742	98.20	176	0.97	128	0.71	21	0.12	-	-	-	-
Ahiferom	33,067	99.89	35	0.11	-	-	-	-	-	-	-	-
Werie Lehe	26,431	99.74	70	0.26	-	-	-	-	-	-	-	-
Adwa	22,655	98.09	348	1.51	71	0.31	23	0.10	-	-	-	-
Laelay Maychew	13,720	97.23	318	2.25	39	0.28	34	0.24	-	-	-	-
Tahtay Maychew	17,309	99.28	96	0.55	29	0.17	-	-	-	-	-	-
Naeder Adet	20,847	98.83	138	0.65	108	0.51	-	-	-	-	-	-
Kola Temben	26,326	99.82	47	0.18	-	-	-	-	-	-	-	-
Degua Temben	21,638	99.83	-	-	-	-	36	0.17	-	-	-	-
Tanqu Abergele	14,367	99.14	69	0.48	37	0.26	-	-	-	-	19	0.13
East Tigray Zone	116,783	98.61	1,079	0.91	414	0.35	82	0.07	68	0.06	-	-
Gulumahada	15,130	97.54	248	1.60	93	0.60	-	-	41	0.26	-	-
Erob	3,538	98.80	15	0.42	23	0.64	-	-	5	0.14	-	-
Saesi Tsaedamba	23,384	98.67	213	0.90	69	0.29	32	0.14	-	-	-	-
Ganta Afeshum	19,996	98.99	59	0.29	124	0.61	-	-	22	0.11	-	-
Hawzen	20,188	98.29	237	1.15	84	0.41	30	0.15	-	-	-	-
Wukro	14,467	99.34	55	0.38	21	0.14	20	0.14	-	-	-	-
Atsbi Wenberta	20,080	98.76	252	1.24	-	-	-	-	-	-	-	-
South Tigray Zone	169,067	98.97	1,240	0.73	246	0.14	168	0.10	65	0.04	35	0.02
Seharte Samre	22,239	99.31	90	0.40	35	0.16	-	-	30	0.13	-	-
Enderta	20,957	98.15	296	1.39	-	-	65	0.30	35	0.16	-	-
Hintalo Wajirat	27,482	98.35	322	1.15	66	0.24	39	0.14	-	-	35	0.13
Ambalage	19,834	99.36	128	0.64	-	-	-	-	-	-	-	-
Endamehoni	16,661	99.11	55	0.33	63	0.37	31	0.18	-	-	-	-
Rayaazebo	19,809	99.41	61	0.31	23	0.12	33	0.17	-	-	-	-
Alamata	14,363	98.80	154	1.06	20	0.14	-	-	-	-	-	-
Wofla	27,721	99.38	134	0.48	40	0.14	-	-	-	-	-	-

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

Geographic area	Number of Crop holders that owned											
	No Hay-Fork (wood)		One Hay-Fork (wood)		Two Hay-Forks (wood)		Three Hay-Forks (wood)		Four Hay-Forks (wood)		Five and above Hay-Forks (wood)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	207,452	30.88	183,620	27.34	187,186	27.87	62,751	9.34	22,043	3.28	8,685	1.29
West Tigray Zone	51,856	31.14	53,587	32.18	42,495	25.52	11,951	7.18	4,665	2.80	1,990	1.19
Kafta	7,724	76.81	1,469	14.61	652	6.48	191	1.90	20	0.20	-	-
Tahtay Adiyabo	5,895	37.37	5,248	33.27	3,334	21.13	980	6.21	232	1.47	86	0.55
Laelay Adiyabo	4,985	24.11	5,294	25.60	6,730	32.55	1,968	9.52	1,084	5.24	616	2.98
Tahtay Koraro	3,906	29.00	3,222	23.92	4,166	30.93	1,294	9.61	600	4.45	283	2.10
Medebay Zana	6,041	27.03	6,721	30.07	6,787	30.37	1,758	7.87	764	3.42	277	1.24
Asegede Tsimbela	3,118	15.16	5,721	27.81	6,878	33.44	2,894	14.07	1,492	7.25	467	2.27
Tselemti	7,670	28.15	9,912	36.38	7,334	26.92	1,773	6.51	360	1.32	199	0.73
Welkait	8,298	37.93	9,496	43.41	3,340	15.27	679	3.10	-	-	62	0.28
Tsegede	4,223	29.07	6,503	44.77	3,274	22.54	414	2.85	111	0.76	-	-
Central Tigray Zone	60,400	27.97	55,684	25.79	64,555	29.89	23,336	10.81	8,600	3.98	3,369	1.56
Mereb Lehe	4,222	23.37	4,795	26.54	5,956	32.97	2,338	12.94	533	2.95	223	1.23
Ahiferom	11,297	34.13	9,035	27.29	8,914	26.93	2,570	7.76	741	2.24	545	1.65
Werie Lehe	7,012	26.46	4,726	17.83	7,944	29.98	4,266	16.10	1,768	6.67	785	2.96
Adwa	8,684	37.60	5,288	22.89	5,741	24.86	2,105	9.11	936	4.05	343	1.49
Laelay Maychew	4,081	28.92	3,616	25.63	4,362	30.91	1,391	9.86	509	3.61	152	1.08
Tahtay Maychew	5,110	29.31	6,834	39.20	3,969	22.77	1,021	5.86	397	2.28	103	0.59
Naeder Adet	5,202	24.66	5,726	27.15	7,060	33.47	2,243	10.63	803	3.81	59	0.28
Kola Temben	5,817	22.06	7,084	26.86	9,278	35.18	2,937	11.14	856	3.25	401	1.52
Degua Temben	5,120	23.62	3,620	16.70	7,136	32.92	3,334	15.38	1,797	8.29	667	3.08
Tanqu Abergele	3,851	26.57	4,961	34.23	4,196	28.95	1,133	7.82	260	1.79	91	0.63
East Tigray Zone	38,432	32.45	29,013	24.50	33,302	28.12	12,422	10.49	4,106	3.47	1,151	0.97
Gulumahada	5,816	37.49	3,356	21.63	4,256	27.44	1,385	8.93	643	4.15	56	0.36
Erob	1,139	31.81	972	27.14	1,005	28.06	330	9.22	112	3.13	23	0.64
Saesi Tsaedamba	7,984	33.69	5,601	23.63	6,524	27.53	2,802	11.82	570	2.41	217	0.92
Ganta Afeshum	6,683	33.08	5,481	27.13	5,630	27.87	1,825	9.03	394	1.95	188	0.93
Hawzen	6,537	31.83	4,558	22.19	6,369	31.01	2,056	10.01	761	3.71	258	1.26
Wukro	4,423	30.37	3,812	26.18	3,984	27.36	1,628	11.18	598	4.11	118	0.81
Atsbi Wenberta	5,849	28.77	5,233	25.74	5,533	27.21	2,397	11.79	1,028	5.06	292	1.44
South Tigray Zone	56,764	33.23	45,335	26.54	46,835	27.42	15,041	8.81	4,672	2.74	2,174	1.27
Seharte Samre	5,416	24.19	4,938	22.05	7,337	32.76	3,096	13.83	1,047	4.68	560	2.50
Enderta	6,901	32.32	4,895	22.92	6,237	29.21	2,199	10.30	737	3.45	384	1.80
Hintalo Wajirat	9,734	34.83	7,926	28.36	7,377	26.40	1,912	6.84	603	2.16	392	1.40
Ambalage	6,511	32.62	6,113	30.62	5,587	27.99	1,211	6.07	405	2.03	135	0.68
Endamehoni	5,485	32.63	4,922	29.28	4,378	26.04	1,560	9.28	366	2.18	99	0.59
Rayaazebo	8,017	40.23	4,845	24.31	4,448	22.32	1,766	8.86	679	3.41	171	0.86
Alamata	7,070	48.63	3,788	26.06	2,601	17.89	690	4.75	241	1.66	147	1.01
Wofla	7,627	27.34	7,908	28.35	8,871	31.80	2,609	9.35	593	2.13	287	1.03

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

Geographic area	Number of Crop holders that owned											
	No Threshing Stick		One Threshing Stick		Two Threshing Sticks		Three Threshing Sticks		Four Threshing Sticks		Five and above Threshing Sticks	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	611,504	91.03	27,951	4.16	19,581	2.91	6,977	1.04	4,502	0.67	1,222	0.18
West Tigray Zone	143,884	86.39	9,227	5.54	8,218	4.93	2,961	1.78	2,000	1.20	254	0.15
Kafta	9,901	98.46	49	0.49	106	1.05	-	-	-	-	-	-
Tahtay Adiyabo	15,045	95.37	466	2.95	159	1.01	43	0.27	19	0.12	43	0.27
Laelay Adiyabo	14,710	71.14	1,950	9.43	2,283	11.04	1,081	5.23	585	2.83	68	0.33
Tahtay Koraro	11,571	85.90	724	5.37	492	3.65	256	1.90	314	2.33	114	0.85
Medebay Zana	20,542	91.92	1,290	5.77	451	2.02	-	-	65	0.29	-	-
Asegede Tsimbela	15,778	76.70	1,683	8.18	1,005	4.89	1,291	6.28	813	3.95	-	-
Tselemti	20,763	76.20	2,707	9.93	3,365	12.35	265	0.97	148	0.54	-	-
Welkait	21,066	96.30	339	1.55	359	1.64	26	0.12	56	0.26	29	0.13
Tsegede	14,507	99.88	18	0.12	-	-	-	-	-	-	-	-
Central Tigray Zone	199,223	92.26	7,388	3.42	5,771	2.67	1,826	0.85	1,216	0.56	520	0.24
Mereb Lehe	17,119	94.75	473	2.62	368	2.04	20	0.11	23	0.13	64	0.35
Ahiferom	32,442	98.01	342	1.03	208	0.63	65	0.20	-	-	45	0.14
Werie Lehe	25,261	95.32	772	2.91	263	0.99	148	0.56	57	0.22	-	-
Adwa	22,867	99.00	127	0.55	23	0.10	50	0.22	30	0.13	-	-
Laelay Maychew	13,390	94.89	507	3.59	143	1.01	36	0.26	35	0.25	-	-
Tahtay Maychew	16,915	97.02	99	0.57	420	2.41	-	-	-	-	-	-
Naeder Adet	18,180	86.19	1,518	7.20	886	4.20	105	0.50	404	1.92	-	-
Kola Temben	20,272	76.87	1,712	6.49	2,424	9.19	1,031	3.91	543	2.06	391	1.48
Degua Temben	20,705	95.53	812	3.75	97	0.45	30	0.14	30	0.14	-	-
Tanqu Abergele	12,072	83.30	1,026	7.08	939	6.48	341	2.35	95	0.66	19	0.13
East Tigray Zone	104,594	88.32	7,079	5.98	3,906	3.30	1,532	1.29	1,019	0.86	296	0.25
Gulumahada	13,746	88.62	924	5.96	480	3.09	219	1.41	143	0.92	-	-
Erob	3,334	93.10	217	6.06	30	0.84	-	-	-	-	-	-
Saesi Tsaedamba	20,903	88.21	1,427	6.02	1,165	4.92	115	0.49	54	0.23	34	0.14
Ganta Afeshum	19,538	96.72	597	2.96	23	0.11	-	-	43	0.21	-	-
Hawzen	17,770	86.52	1,739	8.47	714	3.48	246	1.20	42	0.20	28	0.14
Wukro	13,249	90.98	1,079	7.41	154	1.06	60	0.41	21	0.14	-	-
Atsbi Wenberta	16,052	78.95	1,098	5.40	1,340	6.59	892	4.39	716	3.52	234	1.15
South Tigray Zone	163,801	95.89	4,257	2.49	1,686	0.99	658	0.39	268	0.16	151	0.09
Seharte Samre	20,883	93.25	1,099	4.91	327	1.46	58	0.26	-	-	27	0.12
Enderta	20,854	97.66	220	1.03	152	0.71	78	0.37	13	0.06	36	0.17
Hintalo Wajirat	26,229	93.86	1,037	3.71	423	1.51	191	0.68	64	0.23	-	-
Ambalage	19,569	98.03	345	1.73	48	0.24	-	-	-	-	-	-
Endamehoni	16,229	96.54	408	2.43	173	1.03	-	-	-	-	-	-
Rayaaazebo	19,066	95.68	494	2.48	180	0.90	106	0.53	80	0.40	-	-
Alamata	13,636	93.80	271	1.86	237	1.63	193	1.33	112	0.77	88	0.61
Wofla	27,334	97.99	383	1.37	146	0.52	32	0.11	-	-	-	-

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

Geographic area	Number of Crop holders that owned											
	No Winnowers (metal)		One Winnowers (metal)		Two Winnowers (metal)		Three Winnowers (metal)		Four Winnowers (metal)		Five and above Winnowers (metal)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	668,033	99.45	3,418	0.51	267	0.04	-	-	19	0.00	-	-
West Tigray Zone	165,628	99.45	864	0.52	52	0.03	-	-	-	-	-	-
Kafta	9,984	99.28	72	0.72	-	-	-	-	-	-	-	-
Tahtay Adiyabo	15,331	97.19	423	2.68	21	0.13	-	-	-	-	-	-
Laelay Adiyabo	20,581	99.54	96	0.46	-	-	-	-	-	-	-	-
Tahtay Koraro	13,471	100.00	-	-	-	-	-	-	-	-	-	-
Medebay Zana	22,348	100.00	-	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	20,542	99.86	28	0.14	-	-	-	-	-	-	-	-
Tselemti	27,131	99.57	86	0.32	31	0.11	-	-	-	-	-	-
Welkait	21,736	99.36	139	0.64	-	-	-	-	-	-	-	-
Tsegede	14,506	99.87	19	0.13	-	-	-	-	-	-	-	-
Central Tigray Zone	215,110	99.61	797	0.37	37	0.02	-	-	-	-	-	-
Mereb Lehe	18,067	100.00	-	-	-	-	-	-	-	-	-	-
Ahiferom	33,024	99.76	78	0.24	-	-	-	-	-	-	-	-
Werie Lehe	26,133	98.61	331	1.25	37	0.14	-	-	-	-	-	-
Adwa	23,097	100.00	-	-	-	-	-	-	-	-	-	-
Laelay Maychew	14,111	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Maychew	17,405	99.83	29	0.17	-	-	-	-	-	-	-	-
Naeder Adet	21,065	99.87	28	0.13	-	-	-	-	-	-	-	-
Kola Temben	26,092	98.93	281	1.07	-	-	-	-	-	-	-	-
Degua Temben	21,642	99.85	32	0.15	-	-	-	-	-	-	-	-
Tanqu Abergele	14,474	99.88	18	0.12	-	-	-	-	-	-	-	-
East Tigray Zone	117,424	99.15	869	0.73	114	0.10	-	-	19	0.02	-	-
Gulumahada	15,512	100.00	-	-	-	-	-	-	-	-	-	-
Erob	3,581	100.00	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	23,615	99.65	62	0.26	21	0.09	-	-	-	-	-	-
Ganta Afeshum	20,180	99.90	21	0.10	-	-	-	-	-	-	-	-
Hawzen	20,371	99.18	168	0.82	-	-	-	-	-	-	-	-
Wukro	14,228	97.70	307	2.11	9	0.06	-	-	19	0.13	-	-
Atsbi Wenberta	19,936	98.05	312	1.53	84	0.41	-	-	-	-	-	-
South Tigray Zone	169,869	99.44	888	0.52	64	0.04	-	-	-	-	-	-
Seharte Samre	22,311	99.63	83	0.37	-	-	-	-	-	-	-	-
Enderta	21,297	99.74	56	0.26	-	-	-	-	-	-	-	-
Hintalo Wajirat	27,757	99.33	123	0.44	64	0.23	-	-	-	-	-	-
Ambalage	19,862	99.50	100	0.50	-	-	-	-	-	-	-	-
Endamehoni	16,788	99.87	22	0.13	-	-	-	-	-	-	-	-
Rayaazebo	19,770	99.22	156	0.78	-	-	-	-	-	-	-	-
Alamata	14,276	98.20	261	1.80	-	-	-	-	-	-	-	-
Wofla	27,807	99.68	88	0.32	-	-	-	-	-	-	-	-

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

Geographic area	Number of Crop holders that owned											
	No Winnower (wood)		One Winnower (wood)		Two Winnowers (wood)		Three Winnowers (wood)		Four Winnowers (wood)		Five and above Winnowers (wood)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	559,706	83.32	96,881	14.42	12,591	1.87	1,934	0.29	536	0.08	89	0.01
West Tigray Zone	132,882	79.79	29,067	17.45	3,901	2.34	466	0.28	139	0.08	89	0.05
Kafta	8,072	80.27	1,761	17.51	201	2.00	-	-	-	-	22	0.22
Tahtay Adiyabo	15,273	96.82	432	2.74	70	0.44	-	-	-	-	-	-
Laelay Adiyabo	20,530	99.29	123	0.59	-	-	-	-	-	-	24	0.12
Tahtay Koraro	12,735	94.54	173	1.28	245	1.82	249	1.85	52	0.39	17	0.13
Medebay Zana	21,708	97.14	507	2.27	106	0.47	-	-	-	-	27	0.12
Asegede Tsimbela	19,585	95.21	474	2.30	436	2.12	75	0.36	-	-	-	-
Tselemti	16,644	61.08	9,706	35.62	866	3.18	32	0.12	-	-	-	-
Welkait	12,813	58.57	7,782	35.57	1,153	5.27	63	0.29	64	0.29	-	-
Tsegede	5,521	38.01	8,110	55.83	825	5.68	46	0.32	23	0.16	-	-
Central Tigray Zone	206,350	95.56	6,093	2.82	2,801	1.30	611	0.28	89	0.04	-	-
Mereb Lehe	18,046	99.88	-	-	21	0.12	-	-	-	-	-	-
Ahiferom	32,946	99.53	90	0.27	66	0.20	-	-	-	-	-	-
Werie Lehe	26,074	98.39	264	1.00	163	0.62	-	-	-	-	-	-
Adwa	20,799	90.05	737	3.19	1,077	4.66	437	1.89	47	0.20	-	-
Laelay Maychew	14,111	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Maychew	17,337	99.44	97	0.56	-	-	-	-	-	-	-	-
Naeder Adet	21,043	99.76	50	0.24	-	-	-	-	-	-	-	-
Kola Temben	26,095	98.95	278	1.05	-	-	-	-	-	-	-	-
Degua Temben	20,234	93.36	1,386	6.39	36	0.17	18	0.08	-	-	-	-
Tanqu Abergele	9,663	66.68	3,192	22.03	1,439	9.93	156	1.08	42	0.29	-	-
East Tigray Zone	113,890	96.17	3,381	2.85	604	0.51	450	0.38	101	0.09	-	-
Gulumahada	15,494	99.88	18	0.12	-	-	-	-	-	-	-	-
Erob	3,359	93.80	212	5.92	10	0.28	-	-	-	-	-	-
Saesi Tsaedamba	23,590	99.54	82	0.35	26	0.11	-	-	-	-	-	-
Ganta Afeshum	20,079	99.40	122	0.60	-	-	-	-	-	-	-	-
Hawzen	20,363	99.14	130	0.63	46	0.22	-	-	-	-	-	-
Wukro	13,161	90.37	1,320	9.06	82	0.56	-	-	-	-	-	-
Atsbi Wenberta	17,843	87.76	1,498	7.37	440	2.16	450	2.21	101	0.50	-	-
South Tigray Zone	106,583	62.39	58,339	34.15	5,285	3.09	407	0.24	207	0.12	-	-
Seharte Samre	14,551	64.98	7,041	31.44	753	3.36	49	0.22	-	-	-	-
Enderta	16,001	74.94	5,095	23.86	257	1.20	-	-	-	-	-	-
Hintalo Wajirat	18,992	67.96	8,239	29.48	551	1.97	35	0.13	127	0.45	-	-
Ambalage	12,759	63.92	6,950	34.82	253	1.27	-	-	-	-	-	-
Endamehoni	8,607	51.20	7,796	46.38	407	2.42	-	-	-	-	-	-
Rayaaazebo	12,238	61.42	5,860	29.41	1,488	7.47	282	1.42	58	0.29	-	-
Alamata	8,370	57.58	5,090	35.01	1,013	6.97	42	0.29	22	0.15	-	-
Wofla	15,063	54.00	12,270	43.99	562	2.01	-	-	-	-	-	-

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

[illegible]

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

Geographic area	Number of Crop holders that owned											
	No Sprayer		One Sprayer		Two Sprayers		Three Sprayers		Four Sprayers		Five and above Sprayers	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	668,641	99.54	1,685	0.25	962	0.14	183	0.03	194	0.03	72	0.01
West Tigray Zone	165,837	99.58	291	0.17	339	0.20	60	0.04	17	0.01	-	-
Kafta	10,047	99.91	-	-	9	0.09	-	-	-	-	-	-
Tahtay Adiyabo	15,691	99.47	-	-	84	0.53	-	-	-	-	-	-
Laelay Adiyabo	20,506	99.17	121	0.59	25	0.12	25	0.12	-	-	-	-
Tahtay Koraro	13,355	99.14	66	0.49	17	0.13	16	0.12	17	0.13	-	-
Medebay Zana	22,297	99.77	21	0.09	30	0.13	-	-	-	-	-	-
Asegede Tsimbela	20,496	99.64	-	-	74	0.36	-	-	-	-	-	-
Tselemti	27,148	99.63	-	-	100	0.37	-	-	-	-	-	-
Welkait	21,793	99.63	82	0.37	-	-	-	-	-	-	-	-
Tsegede	14,507	99.88	-	-	-	-	18	0.12	-	-	-	-
Central Tigray Zone	215,012	99.57	581	0.27	225	0.10	56	0.03	40	0.02	30	0.01
Mereb Lehe	17,981	99.52	67	0.37	19	0.11	-	-	-	-	-	-
Ahiferom	32,999	99.69	63	0.19	-	-	-	-	40	0.12	-	-
Werie Lehe	26,224	98.95	131	0.49	116	0.44	-	-	-	-	30	0.11
Adwa	22,997	99.57	45	0.19	25	0.11	30	0.13	-	-	-	-
Laelay Maychew	14,030	99.43	42	0.30	39	0.28	-	-	-	-	-	-
Tahtay Maychew	17,415	99.89	19	0.11	-	-	-	-	-	-	-	-
Naeder Adet	21,044	99.77	49	0.23	-	-	-	-	-	-	-	-
Kola Temben	26,291	99.69	56	0.21	-	-	26	0.10	-	-	-	-
Degua Temben	21,574	99.54	73	0.34	27	0.12	-	-	-	-	-	-
Tanqu Abergele	14,457	99.76	35	0.24	-	-	-	-	-	-	-	-
East Tigray Zone	117,866	99.53	174	0.15	229	0.19	67	0.06	90	0.08	-	-
Gulumahada	15,433	99.49	17	0.11	-	-	20	0.13	42	0.27	-	-
Erob	3,565	99.55	11	0.31	5	0.14	-	-	-	-	-	-
Saesi Tsaedamba	23,666	99.86	32	0.14	-	-	-	-	-	-	-	-
Ganta Afeshum	20,055	99.28	-	-	51	0.25	47	0.23	48	0.24	-	-
Hawzen	20,494	99.78	-	-	45	0.22	-	-	-	-	-	-
Wukro	14,504	99.59	18	0.12	41	0.28	-	-	-	-	-	-
Atsbi Wenberta	20,149	99.10	96	0.47	87	0.43	-	-	-	-	-	-
South Tigray Zone	169,925	99.48	639	0.37	168	0.10	-	-	47	0.03	42	0.02
Seharte Samre	22,362	99.86	-	-	32	0.14	-	-	-	-	-	-
Enderta	21,224	99.40	94	0.44	35	0.16	-	-	-	-	-	-
Hintalo Wajirat	27,558	98.62	255	0.91	42	0.15	-	-	47	0.17	42	0.15
Ambalage	19,877	99.57	85	0.43	-	-	-	-	-	-	-	-
Endamehoni	16,744	99.61	66	0.39	-	-	-	-	-	-	-	-
Rayaazebo	19,902	99.88	-	-	24	0.12	-	-	-	-	-	-
Alamata	14,492	99.69	45	0.31	-	-	-	-	-	-	-	-
Wofla	27,766	99.54	94	0.34	35	0.13	-	-	-	-	-	-

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

Geographic area	Number of Crop holders that owned											
	No Wheelbarrow		One Wheelbarrow		Two Wheelbarrows		Three Wheelbarrows		Four Wheelbarrows		Five and above Wheelbarrows	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	670,938	99.88	761	0.11	20	0.00	-	-	18	0.00	-	-
West Tigray Zone	166,412	99.92	114	0.07	-	-	-	-	18	0.01	-	-
Kafta	9,994	99.38	62	0.62	-	-	-	-	-	-	-	-
Tahtay Adiyabo	15,775	100.00	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	20,677	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Koraro	13,434	99.73	19	0.14	-	-	-	-	18	0.13	-	-
Medebay Zana	22,348	100.00	-	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	20,570	100.00	-	-	-	-	-	-	-	-	-	-
Tselemti	27,215	99.88	33	0.12	-	-	-	-	-	-	-	-
Welkait	21,875	100.00	-	-	-	-	-	-	-	-	-	-
Tsegede	14,525	100.00	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	215,689	99.88	255	0.12	-	-	-	-	-	-	-	-
Mereb Lehe	18,067	100.00	-	-	-	-	-	-	-	-	-	-
Ahiferom	33,102	100.00	-	-	-	-	-	-	-	-	-	-
Werie Lehe	26,501	100.00	-	-	-	-	-	-	-	-	-	-
Adwa	22,871	99.02	226	0.98	-	-	-	-	-	-	-	-
Laelay Maychew	14,111	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Maychew	17,434	100.00	-	-	-	-	-	-	-	-	-	-
Naeder Adet	21,093	100.00	-	-	-	-	-	-	-	-	-	-
Kola Temben	26,373	100.00	-	-	-	-	-	-	-	-	-	-
Degua Temben	21,645	99.87	29	0.13	-	-	-	-	-	-	-	-
Tanqu Abergele	14,492	100.00	-	-	-	-	-	-	-	-	-	-
East Tigray Zone	118,125	99.75	281	0.24	20	0.02	-	-	-	-	-	-
Gulumahada	15,478	99.78	19	0.12	15	0.10	-	-	-	-	-	-
Erob	3,465	96.76	111	3.10	5	0.14	-	-	-	-	-	-
Saesi Tsaedamba	23,635	99.73	63	0.27	-	-	-	-	-	-	-	-
Ganta Afeshum	20,138	99.69	63	0.31	-	-	-	-	-	-	-	-
Hawzen	20,539	100.00	-	-	-	-	-	-	-	-	-	-
Wukro	14,563	100.00	-	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	20,307	99.88	25	0.12	-	-	-	-	-	-	-	-
South Tigray Zone	170,710	99.94	111	0.06	-	-	-	-	-	-	-	-
Seharte Samre	22,394	100.00	-	-	-	-	-	-	-	-	-	-
Enderta	21,290	99.70	63	0.30	-	-	-	-	-	-	-	-
Hintalo Wajirat	27,944	100.00	-	-	-	-	-	-	-	-	-	-
Ambalage	19,962	100.00	-	-	-	-	-	-	-	-	-	-
Endamehoni	16,810	100.00	-	-	-	-	-	-	-	-	-	-
Rayaaazebo	19,926	100.00	-	-	-	-	-	-	-	-	-	-
Alamata	14,537	100.00	-	-	-	-	-	-	-	-	-	-
Wofla	27,846	99.82	49	0.18	-	-	-	-	-	-	-	-

[illegible]

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

Geographic area	Number of Crop holders that owned											
	No Camel		One Camel		Two Camels		Three Camels		Four Camels		Five and above Camels	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	671,223	99.92	489	0.07	25	0.00	-		-		-	
West Tigray Zone	166,163	99.77	381	0.23	-		-		-		-	
Kafta	10,013	99.57	43	0.43	-		-		-		-	
Tahtay Adiyabo	15,735	99.75	40	0.25	-		-		-		-	
Laelay Adiyabo	20,624	99.74	53	0.26	-		-		-		-	
Tahtay Koraro	13,449	99.84	22	0.16	-		-		-		-	
Medebay Zana	22,200	99.34	148	0.66	-		-		-		-	
Asegede Tsimbela	20,495	99.64	75	0.36	-		-		-		-	
Tselemti	27,248	100.00	-		-		-		-		-	
Welkait	21,875	100.00	-		-		-		-		-	
Tsegede	14,525	100.00	-		-		-		-		-	
Central Tigray Zone	215,811	99.94	108	0.05	25	0.01	-		-		-	
Mereb Lehe	17,934	99.26	108	0.60	25	0.14	-		-		-	
Ahiferom	33,102	100.00	-		-		-		-		-	
Werie Lehe	26,501	100.00	-		-		-		-		-	
Adwa	23,097	100.00	-		-		-		-		-	
Laelay Maychew	14,111	100.00	-		-		-		-		-	
Tahtay Maychew	17,434	100.00	-		-		-		-		-	
Naeder Adet	21,093	100.00	-		-		-		-		-	
Kola Temben	26,373	100.00	-		-		-		-		-	
Degua Temben	21,674	100.00	-		-		-		-		-	
Tanqu Abergele	14,492	100.00	-		-		-		-		-	
East Tigray Zone	118,426	100.00	-		-		-		-		-	
Gulumahada	15,512	100.00	-		-		-		-		-	
Erob	3,581	100.00	-		-		-		-		-	
Saesi Tsaedamba	23,698	100.00	-		-		-		-		-	
Ganta Afeshum	20,201	100.00	-		-		-		-		-	
Hawzen	20,539	100.00	-		-		-		-		-	
Wukro	14,563	100.00	-		-		-		-		-	
Atsbi Wenberta	20,332	100.00	-		-		-		-		-	
South Tigray Zone	170,821	100.00	-		-		-		-		-	
Seharte Samre	22,394	100.00	-		-		-		-		-	
Enderta	21,353	100.00	-		-		-		-		-	
Hintalo Wajirat	27,944	100.00	-		-		-		-		-	
Ambalage	19,962	100.00	-		-		-		-		-	
Endamehoni	16,810	100.00	-		-		-		-		-	
Rayaaazebo	19,926	100.00	-		-		-		-		-	
Alamata	14,537	100.00	-		-		-		-		-	
Wofla	27,895	100.00	-		-		-		-		-	

Table 8.24B:- Number of Crop Holders that Owned Mule (Specifically for ploughing 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	%
Tigray Region	671,586	99.98	59	0.01	68	0.01	24	0.00	-		-	
West Tigray Zone	166,544	100.00	-		-		-		-		-	
Kafta	10,056	100.00	-		-		-		-		-	
Tahtay Adiyabo	15,775	100.00	-		-		-		-		-	
Laelay Adiyabo	20,677	100.00	-		-		-		-		-	
Tahtay Koraro	13,471	100.00	-		-		-		-		-	
Medebay Zana	22,348	100.00	-		-		-		-		-	
Asegede Tsimbela	20,570	100.00	-		-		-		-		-	
Tselemti	27,248	100.00	-		-		-		-		-	
Welkait	21,875	100.00	-		-		-		-		-	
Tsegede	14,525	100.00	-		-		-		-		-	
Central Tigray Zone	215,944	100.00	-		-		-		-		-	
Mereb Lehe	18,067	100.00	-		-		-		-		-	
Ahiferom	33,102	100.00	-		-		-		-		-	
Werie Lehe	26,501	100.00	-		-		-		-		-	
Adwa	23,097	100.00	-		-		-		-		-	
Laelay Maychew	14,111	100.00	-		-		-		-		-	
Tahtay Maychew	17,434	100.00	-		-		-		-		-	
Naeder Adet	21,093	100.00	-		-		-		-		-	
Kola Temben	26,373	100.00	-		-		-		-		-	
Degua Temben	21,674	100.00	-		-		-		-		-	
Tanqu Abergele	14,492	100.00	-		-		-		-		-	
East Tigray Zone	118,334	99.92	-		68	0.06	24	0.02	-		-	
Gulumahada	15,512	100.00	-		-		-		-		-	
Erob	3,581	100.00	-		-		-		-		-	
Saesi Tsaedamba	23,698	100.00	-		-		-		-		-	
Ganta Afeshum	20,201	100.00	-		-		-		-		-	
Hawzen	20,539	100.00	-		-		-		-		-	
Wukro	14,563	100.00	-		-		-		-		-	
Atsbi Wenberta	20,240	99.55	-		68	0.33	24	0.12	-		-	
South Tigray Zone	170,762	99.97	59	0.03	-		-		-		-	
Seharte Samre	22,394	100.00	-		-		-		-		-	
Enderta	21,294	99.72	59	0.28	-		-		-		-	
Hintalo Wajirat	27,944	100.00	-		-		-		-		-	
Ambalage	19,962	100.00	-		-		-		-		-	
Endamehoni	16,810	100.00	-		-		-		-		-	
Rayaazebo	19,926	100.00	-		-		-		-		-	
Alamata	14,537	100.00	-		-		-		-		-	
Wofla	27,895	100.00	-		-		-		-		-	

Table 8.25B:- 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	%
Tigray Region	196,416	29.24	212,166	31.58	221,998	33.05	24,296	3.62	13,506	2.01	3,355	0.50
West Tigray Zone	35,133	21.10	47,376	28.45	67,995	40.83	7,833	4.70	6,238	3.75	1,969	1.18
Kafta	6,188	61.54	1,420	14.12	1,873	18.63	248	2.47	198	1.97	129	1.28
Tahtay Adiyabo	3,758	23.82	4,177	26.48	6,342	40.20	688	4.36	572	3.63	238	1.51
Laelay Adiyabo	3,679	17.79	8,181	39.57	7,709	37.28	678	3.28	381	1.84	49	0.24
Tahtay Koraro	2,539	18.85	3,374	25.05	5,997	44.52	876	6.50	504	3.74	181	1.34
Medebay Zana	4,908	21.96	7,235	32.37	8,736	39.09	968	4.33	405	1.81	96	0.43
Asegede Tsimbela	2,609	12.68	3,718	18.07	11,019	53.57	1,461	7.10	1,536	7.47	227	1.10
Tselemti	4,335	15.91	8,721	32.01	12,496	45.86	942	3.46	724	2.66	30	0.11
Welkait	4,475	20.46	5,922	27.07	8,494	38.83	1,170	5.35	1,073	4.91	741	3.39
Tsegede	2,645	18.21	4,627	31.86	5,328	36.68	803	5.53	845	5.82	277	1.91
Central Tigray Zone	63,555	29.43	73,377	33.98	70,541	32.67	6,422	2.97	1,664	0.77	385	0.18
Mereb Lehe	4,917	27.22	5,138	28.44	7,493	41.47	416	2.30	103	0.57	-	-
Ahiferom	11,289	34.10	14,099	42.59	6,992	21.12	578	1.75	86	0.26	58	0.18
Werie Lehe	7,068	26.67	8,105	30.58	9,985	37.68	1,017	3.84	288	1.09	38	0.14
Adwa	5,982	25.90	7,245	31.37	8,685	37.60	916	3.97	218	0.94	51	0.22
Laelay Maychew	4,438	31.45	3,276	23.22	5,572	39.49	750	5.32	36	0.26	39	0.28
Tahtay Maychew	5,590	32.06	6,766	38.81	4,819	27.64	215	1.23	23	0.13	21	0.12
Naeder Adet	6,269	29.72	7,881	37.36	6,407	30.38	510	2.42	-	-	26	0.12
Kola Temben	8,119	30.79	8,961	33.98	8,446	32.03	643	2.44	204	0.77	-	-
Degua Temben	7,160	33.03	7,035	32.46	6,346	29.28	710	3.28	306	1.41	117	0.54
Tanqu Abergele	2,726	18.81	4,870	33.60	5,793	39.97	667	4.60	400	2.76	36	0.25
East Tigray Zone	45,138	38.11	44,409	37.50	26,563	22.43	1,601	1.35	590	0.50	125	0.11
Gulumahada	5,423	34.96	6,809	43.90	3,164	20.40	79	0.51	18	0.12	19	0.12
Erob	1,476	41.22	1,506	42.06	551	15.39	38	1.06	-	-	10	0.28
Saesi Tsaedamba	8,693	36.68	9,351	39.46	5,481	23.13	112	0.47	61	0.26	-	-
Ganta Afeshum	8,192	40.55	8,257	40.87	3,511	17.38	197	0.98	44	0.22	-	-
Hawzen	7,827	38.11	6,455	31.43	5,971	29.07	164	0.80	122	0.59	-	-
Wukro	4,313	29.62	4,899	33.64	4,446	30.53	579	3.98	230	1.58	96	0.66
Atsbi Wenberta	9,213	45.31	7,132	35.08	3,439	16.91	433	2.13	115	0.57	-	-
South Tigray Zone	52,588	30.79	47,005	27.52	56,900	33.31	8,439	4.94	5,013	2.93	876	0.51
Seharte Samre	5,897	26.33	7,738	34.55	7,001	31.26	1,499	6.69	132	0.59	127	0.57
Enderta	6,107	28.60	6,094	28.54	7,029	32.92	1,314	6.15	757	3.55	52	0.24
Hintalo Wajirat	8,138	29.12	8,109	29.02	9,336	33.41	1,493	5.34	768	2.75	100	0.36
Ambalage	7,928	39.72	5,931	29.71	5,425	27.18	556	2.79	89	0.45	33	0.17
Endamehoni	5,857	34.84	4,676	27.82	5,357	31.87	532	3.16	338	2.01	50	0.30
Rayaazebo	4,396	22.06	3,338	16.75	8,665	43.49	1,217	6.11	1,978	9.93	332	1.67
Alamata	4,139	28.47	2,998	20.62	5,993	41.23	652	4.49	655	4.51	100	0.69
Wofla	10,130	36.31	8,120	29.11	8,093	29.01	1,176	4.22	295	1.06	81	0.29

Table 8.26B:- 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	%
Tigray Region	447,646	66.64	174,425	25.97	41,573	6.19	6,594	0.98	820	0.12	679	0.10
West Tigray Zone	103,363	62.06	52,390	31.46	9,134	5.48	1,372	0.82	149	0.09	136	0.08
Kafta	5,328	52.98	4,143	41.20	486	4.83	72	0.72	18	0.18	9	0.09
Tahtay Adiyabo	7,355	46.62	7,313	46.36	948	6.01	129	0.82	13	0.08	17	0.11
Laelay Adiyabo	11,414	55.20	7,905	38.23	1,129	5.46	187	0.90	22	0.11	20	0.10
Tahtay Koraro	9,057	67.23	3,168	23.52	963	7.15	207	1.54	37	0.27	39	0.29
Medebay Zana	15,886	71.08	5,000	22.37	1,350	6.04	112	0.50	-	-	-	-
Asegede Tsimbela	13,356	64.93	6,071	29.51	876	4.26	186	0.90	30	0.15	51	0.25
Tselemti	21,016	77.13	4,967	18.23	1,089	4.00	146	0.54	30	0.11	-	-
Welkait	12,528	57.27	7,515	34.35	1,614	7.38	218	1.00	-	-	-	-
Tsegede	7,425	51.12	6,306	43.41	679	4.67	115	0.79	-	-	-	-
Central Tigray Zone	159,341	73.79	42,888	19.86	11,158	5.17	2,033	0.94	297	0.14	227	0.11
Mereb Lehe	11,590	64.15	5,511	30.50	754	4.17	174	0.96	19	0.11	19	0.11
Ahiferom	25,851	78.09	5,809	17.55	1,224	3.70	152	0.46	66	0.20	-	-
Werie Lehe	21,673	81.78	3,076	11.61	1,211	4.57	416	1.57	65	0.25	60	0.23
Adwa	17,541	75.94	3,753	16.25	1,496	6.48	257	1.11	24	0.10	26	0.11
Laelay Maychew	8,908	63.13	3,899	27.63	1,025	7.26	235	1.67	44	0.31	-	-
Tahtay Maychew	13,170	75.54	3,313	19.00	826	4.74	85	0.49	-	-	40	0.23
Naeder Adet	16,875	80.00	3,195	15.15	813	3.85	161	0.76	49	0.23	-	-
Kola Temben	20,742	78.65	3,923	14.88	1,635	6.20	73	0.28	-	-	-	-
Degua Temben	15,012	69.26	4,849	22.37	1,387	6.40	334	1.54	30	0.14	62	0.29
Tanqu Abergele	7,981	55.07	5,560	38.37	786	5.42	146	1.01	-	-	19	0.13
East Tigray Zone	84,383	71.25	27,653	23.35	5,478	4.63	719	0.61	123	0.10	70	0.06
Gulumahada	11,837	76.31	2,674	17.24	861	5.55	113	0.73	27	0.17	-	-
Erob	1,828	51.05	1,420	39.65	318	8.88	15	0.42	-	-	-	-
Saesi Tsaedamba	17,302	73.01	5,078	21.43	1,088	4.59	141	0.59	65	0.27	24	0.10
Ganta Afeshum	17,301	85.64	2,426	12.01	401	1.99	46	0.23	-	-	27	0.13
Hawzen	16,384	79.77	3,406	16.58	600	2.92	118	0.57	31	0.15	-	-
Wukro	7,846	53.88	5,663	38.89	912	6.26	123	0.84	-	-	19	0.13
Atsbi Wenberta	11,883	58.44	6,988	34.37	1,297	6.38	164	0.81	-	-	-	-
South Tigray Zone	100,557	58.87	51,494	30.15	15,803	9.25	2,470	1.45	252	0.15	245	0.14
Seharte Samre	12,622	56.36	7,891	35.24	1,777	7.94	104	0.46	-	-	-	-
Enderta	6,696	31.36	10,529	49.31	3,757	17.59	291	1.36	80	0.37	-	-
Hintalo Wajirat	14,348	51.35	10,401	37.22	2,749	9.84	410	1.47	36	0.13	-	-
Ambalage	13,909	69.68	3,883	19.45	1,725	8.64	412	2.06	-	-	33	0.17
Endamehoni	10,220	60.80	4,305	25.61	1,754	10.43	439	2.61	40	0.24	52	0.31
Rayaazebo	12,360	62.03	6,134	30.78	1,203	6.04	149	0.75	-	-	80	0.40
Alamata	10,803	74.31	2,716	18.68	731	5.03	149	1.02	96	0.66	42	0.29
Wofla	19,600	70.26	5,635	20.20	2,106	7.55	516	1.85	-	-	38	0.14

Table 8.28B:- 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	%
Tigray Region	184,594	27.48	159,136	23.69	181,882	27.08	69,510	10.35	41,845	6.23	34,770	5.18
West Tigray Zone	33,418	20.07	37,309	22.40	52,609	31.59	18,071	10.85	12,001	7.21	13,136	7.89
Kafta	6,046	60.12	1,107	11.01	1,487	14.79	456	4.53	362	3.60	598	5.95
Tahtay Adiyabo	3,572	22.64	3,721	23.59	4,780	30.30	1,039	6.59	992	6.29	1,671	10.59
Laelay Adiyabo	3,804	18.40	6,648	32.15	7,749	37.48	1,363	6.59	721	3.49	392	1.90
Tahtay Koraro	2,442	18.13	2,723	20.21	4,949	36.74	1,658	12.31	1,100	8.17	599	4.45
Medebay Zana	4,558	20.40	5,699	25.50	7,210	32.26	2,320	10.38	1,139	5.10	1,422	6.36
Asegede Tsimbela	2,279	11.08	2,218	10.78	5,722	27.82	4,233	20.58	2,881	14.01	3,237	15.74
Tselemti	3,917	14.38	5,931	21.77	9,760	35.82	3,591	13.18	2,495	9.16	1,554	5.70
Welkait	4,262	19.48	5,230	23.91	5,947	27.19	2,044	9.34	1,457	6.66	2,935	13.42
Tsegede	2,538	17.47	4,033	27.77	5,006	34.46	1,366	9.40	855	5.89	727	5.01
Central Tigray Zone	58,732	27.20	53,566	24.81	56,229	26.04	23,240	10.76	13,494	6.25	10,683	4.95
Mereb Lehe	4,699	26.01	4,412	24.42	6,312	34.94	1,220	6.75	786	4.35	638	3.53
Ahiferom	10,188	30.78	11,412	34.48	5,780	17.46	3,067	9.27	1,416	4.28	1,239	3.74
Werie Lehe	6,342	23.93	5,129	19.35	6,947	26.21	3,078	11.61	2,805	10.58	2,200	8.30
Adwa	5,565	24.09	4,520	19.57	5,896	25.53	3,636	15.74	1,900	8.23	1,580	6.84
Laelay Maychew	4,016	28.46	2,647	18.76	4,803	34.04	1,661	11.77	569	4.03	415	2.94
Tahtay Maychew	5,004	28.70	5,035	28.88	4,566	26.19	1,882	10.79	758	4.35	189	1.08
Naeder Adet	5,398	25.59	5,281	25.04	5,110	24.23	2,289	10.85	1,616	7.66	1,399	6.63
Kola Temben	8,561	32.46	5,764	21.86	6,889	26.12	2,823	10.70	1,572	5.96	764	2.90
Degua Temben	6,286	29.00	5,472	25.25	4,982	22.99	2,430	11.21	1,229	5.67	1,275	5.88
Tanqu Abergele	2,674	18.45	3,892	26.86	4,945	34.12	1,155	7.97	842	5.81	984	6.79
East Tigray Zone	44,211	37.33	31,715	26.78	23,741	20.05	10,572	8.93	5,102	4.31	3,085	2.61
Gulumahada	5,428	34.99	4,573	29.48	3,349	21.59	1,227	7.91	602	3.88	333	2.15
Erob	1,603	44.76	1,033	28.85	586	16.36	234	6.53	100	2.79	25	0.70
Saesi Tsaedamba	8,922	37.65	6,038	25.48	3,870	16.33	2,736	11.55	1,022	4.31	1,110	4.68
Ganta Afeshum	8,932	44.22	6,199	30.69	3,298	16.33	1,209	5.98	449	2.22	114	0.56
Hawzen	7,305	35.57	4,479	21.81	4,358	21.22	2,223	10.82	1,560	7.60	614	2.99
Wukro	4,287	29.44	3,899	26.77	4,204	28.87	1,136	7.80	691	4.74	346	2.38
Atsbi Wenberta	7,734	38.04	5,494	27.02	4,077	20.05	1,808	8.89	678	3.33	541	2.66
South Tigray Zone	48,232	28.24	36,546	21.39	49,302	28.86	17,627	10.32	11,248	6.58	7,866	4.60
Seharte Samre	4,900	21.88	5,401	24.12	6,350	28.36	2,832	12.65	1,325	5.92	1,586	7.08
Enderta	5,651	26.46	5,694	26.67	7,314	34.25	1,726	8.08	916	4.29	52	0.24
Hintalo Wajirat	7,964	28.50	6,569	23.51	7,645	27.36	2,862	10.24	1,487	5.32	1,417	5.07
Ambalage	7,315	36.64	4,055	20.31	4,467	22.38	2,648	13.27	725	3.63	752	3.77
Endamehoni	5,664	33.69	3,897	23.18	4,301	25.59	1,493	8.88	838	4.99	617	3.67
Rayaazebo	4,309	21.63	3,214	16.13	8,158	40.94	1,411	7.08	2,216	11.12	618	3.10
Alamata	3,805	26.17	2,841	19.54	5,369	36.93	888	6.11	784	5.39	850	5.85
Wofla	8,625	30.92	4,875	17.48	5,698	20.43	3,766	13.50	2,957	10.60	1,974	7.08

Table 8.29B:- 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	%
Tigray Region	670,599	99.83	1,025	0.15	93	0.01	-	-	20	0.00	-	-
West Tigray Zone	166,240	99.82	270	0.16	34	0.02	-	-	-	-	-	-
Kafta	10,056	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	15,775	100.00	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	20,677	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Koraro	13,455	99.88	-	-	16	0.12	-	-	-	-	-	-
Medebay Zana	22,348	100.00	-	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	20,570	100.00	-	-	-	-	-	-	-	-	-	-
Tselemti	27,248	100.00	-	-	-	-	-	-	-	-	-	-
Welkait	21,875	100.00	-	-	-	-	-	-	-	-	-	-
Tsegede	14,237	98.02	270	1.86	18	0.12	-	-	-	-	-	-
Central Tigray Zone	215,878	99.97	66	0.03	-	-	-	-	-	-	-	-
Mereb Lehe	18,067	100.00	-	-	-	-	-	-	-	-	-	-
Ahiferom	33,036	99.80	66	0.20	-	-	-	-	-	-	-	-
Werie Lehe	26,501	100.00	-	-	-	-	-	-	-	-	-	-
Adwa	23,097	100.00	-	-	-	-	-	-	-	-	-	-
Laelay Maychew	14,111	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Maychew	17,434	100.00	-	-	-	-	-	-	-	-	-	-
Naeder Adet	21,093	100.00	-	-	-	-	-	-	-	-	-	-
Kola Temben	26,373	100.00	-	-	-	-	-	-	-	-	-	-
Degua Temben	21,674	100.00	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	14,492	100.00	-	-	-	-	-	-	-	-	-	-
East Tigray Zone	118,240	99.84	168	0.14	18	-	-	-	-	-	-	-
Gulumahada	15,454	99.63	40	0.26	18	-	-	-	-	-	-	-
Erob	3,581	100.00	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	23,672	99.89	26	0.11	-	-	-	-	-	-	-	-
Ganta Afeshum	20,201	100.00	-	-	-	-	-	-	-	-	-	-
Hawzen	20,539	100.00	-	-	-	-	-	-	-	-	-	-
Wukro	14,563	100.00	-	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	20,229	99.49	103	0.51	-	-	-	-	-	-	-	-
South Tigray Zone	170,240	99.66	521	0.30	40	0.02	-	-	20	0.01	-	-
Seharte Samre	22,394	100.00	-	-	-	-	-	-	-	-	-	-
Enderta	21,236	99.45	117	0.55	-	-	-	-	-	-	-	-
Hintalo Wajirat	27,944	100.00	-	-	-	-	-	-	-	-	-	-
Ambalage	19,825	99.31	137	0.69	-	-	-	-	-	-	-	-
Endamehoni	16,718	99.45	32	0.19	40	0.24	-	-	20	0.12	-	-
Rayaaazebo	19,861	99.67	65	0.33	-	-	-	-	-	-	-	-
Alamata	14,467	99.52	70	0.48	-	-	-	-	-	-	-	-
Wofla	27,796	99.65	99	0.35	-	-	-	-	-	-	-	-

Table 8.30B:- 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	%
Tigray Region	666,706	99.25	4,331	0.64	506	0.08	126	0.02	36	0.01	32	0.00
West Tigray Zone	165,480	99.36	1,033	0.62	15	0.01	-	-	16	0.01	-	-
Kafta	10,056	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	15,758	99.89	17	0.11	-	-	-	-	-	-	-	-
Laelay Adiyabo	20,561	99.44	116	0.56	-	-	-	-	-	-	-	-
Tahtay Koraro	13,397	99.45	58	0.43	-	-	-	-	16	0.12	-	-
Medebay Zana	22,291	99.74	57	0.26	-	-	-	-	-	-	-	-
Asegede Tsimbela	20,262	98.50	308	1.50	-	-	-	-	-	-	-	-
Tselemti	27,218	99.89	30	0.11	-	-	-	-	-	-	-	-
Welkait	21,618	98.83	257	1.17	-	-	-	-	-	-	-	-
Tsegede	14,319	98.58	191	1.31	15	0.10	-	-	-	-	-	-
Central Tigray Zone	214,786	99.46	1,008	0.47	118	0.05	-	-	-	-	32	0.01
Mereb Lehe	17,982	99.53	85	0.47	-	-	-	-	-	-	-	-
Ahiferom	32,814	99.13	288	0.87	-	-	-	-	-	-	-	-
Werie Lehe	26,441	99.77	28	0.11	-	-	-	-	-	-	32	0.12
Adwa	23,051	99.80	46	0.20	-	-	-	-	-	-	-	-
Laelay Maychew	14,111	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Maychew	17,336	99.44	98	0.56	-	-	-	-	-	-	-	-
Naeder Adet	21,093	100.00	-	-	-	-	-	-	-	-	-	-
Kola Temben	26,373	100.00	-	-	-	-	-	-	-	-	-	-
Degua Temben	21,223	97.92	333	1.54	118	0.54	-	-	-	-	-	-
Tanqu Abergele	14,362	99.10	130	0.90	-	-	-	-	-	-	-	-
East Tigray Zone	117,575	99.28	618	0.52	140	0.12	73	0.06	20	0.02	-	-
Gulumahada	15,493	99.88	19	0.12	-	-	-	-	-	-	-	-
Erob	3,569	99.66	12	0.34	-	-	-	-	-	-	-	-
Saesi Tsaedamba	23,526	99.27	172	0.73	-	-	-	-	-	-	-	-
Ganta Afeshum	20,171	99.85	30	0.15	-	-	-	-	-	-	-	-
Hawzen	20,509	99.85	30	0.15	-	-	-	-	-	-	-	-
Wukro	14,360	98.61	144	0.99	39	0.27	-	-	20	0.14	-	-
Atsbi Wenberta	19,948	98.11	211	1.04	100	0.49	73	0.36	-	-	-	-
South Tigray Zone	168,863	98.85	1,671	0.98	234	0.14	53	0.03	-	-	-	-
Seharte Samre	21,988	98.19	292	1.30	85	0.38	29	0.13	-	-	-	-
Enderta	20,907	97.91	370	1.73	76	0.36	-	-	-	-	-	-
Hintalo Wajirat	27,670	99.02	202	0.72	72	0.26	-	-	-	-	-	-
Ambalage	19,851	99.44	111	0.56	-	-	-	-	-	-	-	-
Endamehoni	16,757	99.68	53	0.32	-	-	-	-	-	-	-	-
Rayaaazebo	19,722	98.98	181	0.91	-	-	23	0.12	-	-	-	-
Alamata	14,433	99.28	104	0.72	-	-	-	-	-	-	-	-
Wofla	27,536	98.71	359	1.29	-	-	-	-	-	-	-	-

Table 8.31B:- 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	%
Tigray Region	264,702	39.41	61,201	9.11	105,883	15.76	88,456	13.17	61,878	9.21	89,617	13.34
West Tigray Zone	67,545	40.56	22,317	13.40	37,310	22.40	21,118	12.68	10,899	6.54	7,355	4.42
Kafta	7,296	72.55	1,448	14.40	1,200	11.93	104	1.03	-	-	8	0.08
Tahtay Adiyabo	4,252	26.95	1,790	11.35	3,977	25.21	2,964	18.79	1,767	11.20	1,025	6.50
Laelay Adiyabo	8,816	42.64	2,042	9.88	4,629	22.39	2,617	12.66	1,236	5.98	1,337	6.47
Tahtay Koraro	2,852	21.17	1,580	11.73	3,728	27.67	2,780	20.64	1,692	12.56	839	6.23
Medebay Zana	7,318	32.75	1,893	8.47	4,222	18.89	3,639	16.28	2,702	12.09	2,574	11.52
Asegede Tsimbela	5,924	28.80	2,874	13.97	4,426	21.52	3,831	18.62	2,290	11.13	1,225	5.96
Tselemti	12,051	44.23	4,579	16.80	6,553	24.05	2,966	10.89	765	2.81	334	1.23
Welkait	13,803	63.10	2,281	10.43	4,560	20.85	967	4.42	264	1.21	-	-
Tsegede	5,233	36.03	3,829	26.36	4,015	27.64	1,251	8.61	184	1.27	13	0.09
Central Tigray Zone	29,620	13.72	11,305	5.24	30,791	14.26	39,352	18.22	35,266	16.33	69,610	32.24
Mereb Lehe	658	3.64	692	3.83	2,927	16.20	4,691	25.96	3,990	22.08	5,109	28.28
Ahiferom	7,639	23.08	1,944	5.87	4,580	13.84	6,151	18.58	4,760	14.38	8,028	24.25
Werie Lehe	923	3.48	520	1.96	1,998	7.54	3,903	14.73	4,417	16.67	14,740	55.62
Adwa	1,503	6.51	1,207	5.23	3,234	14.00	4,221	18.28	4,381	18.97	8,551	37.02
Laelay Maychew	734	5.20	575	4.07	1,739	12.32	1,990	14.10	2,255	15.98	6,818	48.32
Tahtay Maychew	3,052	17.51	761	4.37	3,480	19.96	4,060	23.29	2,668	15.30	3,413	19.58
Naeder Adet	1,601	7.59	1,189	5.64	2,933	13.91	4,515	21.41	4,125	19.56	6,730	31.91
Kola Temben	2,463	9.34	947	3.59	3,618	13.72	4,087	15.50	4,610	17.48	10,648	40.37
Degua Temben	9,415	43.44	2,628	12.13	4,071	18.78	2,394	11.05	1,860	8.58	1,306	6.03
Tanqu Abergele	1,632	11.26	842	5.81	2,212	15.26	3,341	23.05	2,199	15.17	4,266	29.44
East Tigray Zone	56,752	47.92	6,952	5.87	15,585	13.16	17,035	14.38	11,559	9.76	10,543	8.90
Gulumahada	4,775	30.78	946	6.10	2,393	15.43	3,498	22.55	2,378	15.33	1,522	9.81
Erob	2,043	57.05	122	3.41	321	8.96	464	12.96	287	8.01	344	9.61
Saesi Tsaedamba	15,717	66.32	764	3.22	2,763	11.66	2,584	10.90	1,220	5.15	650	2.74
Ganta Afeshum	3,989	19.75	1,175	5.82	3,195	15.82	4,668	23.11	3,223	15.95	3,951	19.56
Hawzen	12,117	59.00	693	3.37	2,183	10.63	2,040	9.93	1,920	9.35	1,586	7.72
Wukro	4,785	32.86	1,230	8.45	2,145	14.73	2,554	17.54	1,664	11.43	2,185	15.00
Atsbi Wenberta	13,327	65.55	2,021	9.94	2,585	12.71	1,227	6.03	867	4.26	305	1.50
South Tigray Zone	110,784	64.85	20,627	12.08	22,197	12.99	10,950	6.41	4,154	2.43	2,109	1.23
Seharte Samre	12,487	55.76	2,662	11.89	3,093	13.81	2,458	10.98	825	3.68	869	3.88
Enderta	17,496	81.94	1,751	8.20	1,572	7.36	417	1.95	87	0.41	30	0.14
Hintalo Wajirat	24,380	87.25	1,794	6.42	1,073	3.84	527	1.89	128	0.46	42	0.15
Ambalage	13,771	68.99	2,672	13.39	2,266	11.35	938	4.70	286	1.43	29	0.15
Endamehoni	11,033	65.63	1,865	11.09	2,376	14.13	843	5.01	477	2.84	216	1.28
Rayaazebo	11,244	56.43	3,586	18.00	3,206	16.09	1,278	6.41	535	2.68	77	0.39
Alamata	5,662	38.95	3,176	21.85	3,856	26.53	1,436	9.88	317	2.18	90	0.62
Wofla	14,714	52.75	3,120	11.18	4,755	17.05	3,052	10.94	1,499	5.37	755	2.71

Table 8.32B:- 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 'Gotteras'		Three 'Gotteras'		Four 'Gotteras'		Five and above 'Gotteras'	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	458,285	68.22	65,499	9.75	62,959	9.37	40,787	6.07	21,549	3.21	22,658	3.37
West Tigray Zone	52,836	31.72	23,789	14.28	41,009	24.62	25,478	15.30	13,250	7.96	10,182	6.11
Kafta	6,555	65.18	2,403	23.90	926	9.21	133	1.32	39	0.39	-	-
Tahtay Adiyabo	11,278	71.49	1,701	10.78	1,606	10.18	590	3.74	330	2.09	270	1.71
Laelay Adiyabo	6,301	30.47	1,356	6.56	4,793	23.18	4,771	23.07	2,307	11.16	1,149	5.56
Tahtay Koraro	4,413	32.76	964	7.16	2,190	16.26	2,694	20.00	1,560	11.58	1,650	12.25
Medebay Zana	6,548	29.30	1,516	6.78	2,967	13.28	4,042	18.09	3,306	14.79	3,969	17.76
Asegede Tsimbela	5,733	27.87	3,154	15.33	5,973	29.04	3,348	16.28	1,616	7.86	746	3.63
Tselemti	5,898	21.65	4,010	14.72	8,536	31.33	4,851	17.80	2,413	8.86	1,540	5.65
Welkait	5,138	23.49	5,647	25.81	6,826	31.20	2,834	12.96	948	4.33	482	2.20
Tsegede	974	6.71	3,039	20.92	7,192	49.51	2,215	15.25	729	5.02	376	2.59
Central Tigray Zone	187,894	87.01	5,327	2.47	6,663	3.09	5,555	2.57	3,481	1.61	7,024	3.25
Mereb Lehe	17,582	97.32	160	0.89	160	0.89	66	0.37	42	0.23	57	0.32
Ahiferom	29,966	90.53	81	0.24	290	0.88	690	2.08	596	1.80	1,479	4.47
Werie Lehe	25,538	96.37	887	3.35	32	0.12	-	-	44	0.17	-	-
Adwa	21,465	92.93	-	-	330	1.43	314	1.36	261	1.13	727	3.15
Laelay Maychew	13,982	99.09	-	-	19	0.13	20	0.14	51	0.36	39	0.28
Tahtay Maychew	14,042	80.54	297	1.70	862	4.94	885	5.08	687	3.94	661	3.79
Naeder Adet	19,411	92.03	237	1.12	292	1.38	299	1.42	179	0.85	675	3.20
Kola Temben	19,101	72.43	887	3.36	1,422	5.39	1,513	5.74	711	2.70	2,739	10.39
Degua Temben	16,561	76.41	1,536	7.09	1,824	8.42	1,036	4.78	496	2.29	221	1.02
Tanqu Abergele	10,249	70.72	1,242	8.57	1,432	9.88	732	5.05	412	2.84	425	2.93
East Tigray Zone	99,226	83.79	3,137	2.65	4,477	3.78	4,865	4.11	2,900	2.45	3,821	3.23
Gulumahada	14,124	91.05	132	0.85	346	2.23	500	3.22	314	2.02	96	0.62
Erob	3,237	90.39	92	2.57	121	3.38	86	2.40	18	0.50	27	0.75
Saesi Tsaedamba	19,342	81.62	1,192	5.03	1,414	5.97	1,159	4.89	288	1.22	303	1.28
Ganta Afeshum	19,979	98.90	27	0.13	122	0.60	50	0.25	-	-	23	0.11
Hawzen	10,100	49.17	501	2.44	1,840	8.96	2,763	13.45	1,999	9.73	3,336	16.24
Wukro	13,992	96.08	127	0.87	120	0.82	86	0.59	229	1.57	9	0.06
Atsbi Wenberta	18,451	90.75	1,067	5.25	514	2.53	221	1.09	53	0.26	26	0.13
South Tigray Zone	118,326	69.27	33,246	19.46	10,810	6.33	4,889	2.86	1,918	1.12	1,632	0.96
Seharte Samre	14,193	63.38	2,101	9.38	2,020	9.02	2,309	10.31	951	4.25	820	3.66
Enderta	20,953	98.13	242	1.13	158	0.74	-	-	-	-	-	-
Hintalo Wajirat	18,521	66.28	5,200	18.61	2,302	8.24	840	3.01	562	2.01	519	1.86
Ambalage	14,837	74.33	2,866	14.36	1,559	7.81	489	2.45	107	0.54	104	0.52
Endamehoni	10,652	63.37	3,816	22.70	1,328	7.90	729	4.34	155	0.92	130	0.77
Rayaazebo	11,651	58.47	7,073	35.50	1,128	5.66	74	0.37	-	-	-	-
Alamata	8,370	57.58	5,294	36.42	758	5.21	76	0.52	19	0.13	20	0.14
Wofla	19,145	68.63	6,654	23.85	1,559	5.59	373	1.34	125	0.45	39	0.14

Table 8.33B:- 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	%
Tigray Region	649,104	96.63	17,832	2.65	3,375	0.50	646	0.10	267	0.04	513	0.08
West Tigray Zone	166,219	99.80	90	0.05	47	0.03	55	0.03	52	0.03	81	0.05
Kafta	10,034	99.78	22	0.22	-	-	-	-	-	-	-	-
Tahtay Adiyabo	15,775	100.00	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	20,677	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Koraro	13,455	99.88	-	-	16	0.12	-	-	-	-	-	-
Medebay Zana	22,238	99.51	-	-	-	-	55	0.25	-	-	55	0.25
Asegede Tsimbela	20,432	99.33	30	0.15	30	0.15	-	-	52	0.25	26	0.13
Tselemti	27,248	100.00	-	-	-	-	-	-	-	-	-	-
Welkait	21,875	100.00	-	-	-	-	-	-	-	-	-	-
Tsegede	14,487	99.74	38	0.26	-	-	-	-	-	-	-	-
Central Tigray Zone	215,000	99.56	344	0.16	219	0.10	95	0.04	-	-	286	0.13
Mereb Lehe	18,003	99.65	64	0.35	-	-	-	-	-	-	-	-
Ahiferom	33,055	99.86	47	0.14	-	-	-	-	-	-	-	-
Werie Lehe	26,501	100.00	-	-	-	-	-	-	-	-	-	-
Adwa	22,975	99.47	25	0.11	-	-	-	-	-	-	97	0.42
Laelay Maychew	14,093	99.87	-	-	18	0.13	-	-	-	-	-	-
Tahtay Maychew	17,366	99.61	-	-	-	-	68	0.39	-	-	-	-
Naeder Adet	20,692	98.10	154	0.73	127	0.60	-	-	-	-	120	0.57
Kola Temben	26,265	99.59	-	-	39	0.15	-	-	-	-	69	0.26
Degua Temben	21,647	99.88	-	-	-	-	27	0.12	-	-	-	-
Tanqu Abergele	14,402	99.38	54	0.37	36	0.25	-	-	-	-	-	-
East Tigray Zone	117,595	99.30	298	0.25	270	0.23	115	0.10	85	0.07	63	0.05
Gulumahada	15,476	99.77	-	-	-	-	18	0.12	18	0.12	-	-
Erob	3,581	100.00	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	23,480	99.08	31	0.13	62	0.26	31	0.13	31	0.13	63	0.27
Ganta Afeshum	20,056	99.28	80	0.40	30	0.15	-	-	35	0.17	-	-
Hawzen	20,539	100.00	-	-	-	-	-	-	-	-	-	-
Wukro	14,563	100.00	-	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	19,901	97.88	187	0.92	178	0.88	66	0.32	-	-	-	-
South Tigray Zone	150,286	87.98	17,100	10.01	2,840	1.66	381	0.22	131	0.08	83	0.05
Seharte Samre	22,108	98.72	82	0.37	89	0.40	54	0.24	-	-	61	0.27
Enderta	21,162	99.11	163	0.76	-	-	28	0.13	-	-	-	-
Hintalo Wajirat	27,408	98.08	407	1.46	42	0.15	35	0.13	52	0.19	-	-
Ambalage	19,940	99.89	22	0.11	-	-	-	-	-	-	-	-
Endamehoni	16,810	100.00	-	-	-	-	-	-	-	-	-	-
Rayaazebo	6,197	31.10	11,639	58.41	1,951	9.79	109	0.55	30	0.15	-	-
Alamata	8,939	61.49	4,700	32.33	757	5.21	70	0.48	49	0.34	22	0.15
Wofla	27,722	99.38	87	0.31	-	-	86	0.31	-	-	-	-

Table 8.34B:- Number of Crop Holders that Owned Modern Storage by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Modern Storage		One Modern Storage		Two Modern Storages		Three Modern Storages		Four Modern Storages		Five and above Modern Storages	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Tigray Region	670,595	99.83	384	0.06	324	0.05	184	0.03	156	0.02	94	0.01
West Tigray Zone	166,020	99.69	187	0.11	204	0.12	84	0.05	49	0.03	-	-
Kafta	10,056	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	15,754	99.87	21	0.13	-	-	-	-	-	-	-	-
Laelay Adiyabo	20,560	99.43	-	-	68	0.33	-	-	49	0.24	-	-
Tahtay Koraro	13,453	99.87	-	-	-	-	18	0.13	-	-	-	-
Medebay Zana	22,348	100.00	-	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	20,534	99.82	-	-	-	-	36	0.18	-	-	-	-
Tselemti	27,114	99.51	37	0.14	97	0.36	-	-	-	-	-	-
Welkait	21,686	99.14	129	0.59	29	0.13	31	0.14	-	-	-	-
Tsegede	14,516	99.94	-	-	9	0.06	-	-	-	-	-	-
Central Tigray Zone	215,731	99.90	29	0.01	36	0.02	38	0.02	45	0.02	65	0.03
Mereb Lehe	18,067	100.00	-	-	-	-	-	-	-	-	-	-
Ahiferom	32,992	99.67	-	-	36	0.11	38	0.11	-	-	36	0.11
Werie Lehe	26,501	100.00	-	-	-	-	-	-	-	-	-	-
Adwa	23,068	99.87	29	0.13	-	-	-	-	-	-	-	-
Laelay Maychew	14,111	100.00	-	-	-	-	-	-	-	-	-	-
Tahtay Maychew	17,434	100.00	-	-	-	-	-	-	-	-	-	-
Naeder Adet	21,065	99.87	-	-	-	-	-	-	-	-	28	0.13
Kola Temben	26,373	100.00	-	-	-	-	-	-	-	-	-	-
Degua Temben	21,649	99.88	-	-	-	-	-	-	25	0.12	-	-
Tanqu Abergele	14,473	99.87	-	-	-	-	-	-	19	0.13	-	-
East Tigray Zone	118,242	99.84	42	0.04	49	0.04	31	0.03	62	0.05	-	-
Gulumahada	15,495	99.89	-	-	17	0.11	-	-	-	-	-	-
Erob	3,570	99.69	11	0.31	-	-	-	-	-	-	-	-
Saesi Tsaedamba	23,634	99.73	32	0.14	32	0.14	-	-	-	-	-	-
Ganta Afeshum	20,201	100.00	-	-	-	-	-	-	-	-	-	-
Hawzen	20,446	99.55	-	-	-	-	31	0.15	62	0.30	-	-
Wukro	14,563	100.00	-	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	20,332	100.00	-	-	-	-	-	-	-	-	-	-
South Tigray Zone	170,601	99.87	126	0.07	35	0.02	30	0.02	-	-	29	0.02
Seharte Samre	22,365	99.87	-	-	-	-	-	-	-	-	29	0.13
Enderta	21,353	100.00	-	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	27,837	99.62	42	0.15	35	0.13	30	0.11	-	-	-	-
Ambalage	19,962	100.00	-	-	-	-	-	-	-	-	-	-
Endamehoni	16,747	99.63	63	0.37	-	-	-	-	-	-	-	-
Rayaazebo	19,926	100.00	-	-	-	-	-	-	-	-	-	-
Alamata	14,517	99.86	20	0.14	-	-	-	-	-	-	-	-
Wofla	27,895	100.00	-	-	-	-	-	-	-	-	-	-

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

Annex Tables 8.1-8.5

Reported and Total Value, for Private Holdings, Regional.

Implements, Equipment, Farm animals and Storage facilities	Number of Holders			Number of Implements, Equipment, Farm animals and Storages			Total Value		
	Reporting	S.E	C.V	Reported	S.E	C.V	(Birr)	S.E	C.V
Used for Clearing Land									
Axe.....	481,318	5,290.70	1.10	715,388	14,146.04	1.98	8,779,927	18,062,610.30	2.06
Gejera.....	283,849	5,914.85	2.08	317,408	7,099.01	2.24	3,949,718	11,090,024.46	2.81
Shovel.....	290,835	4,481.88	1.54	310,158	4,976.38	1.60	3,767,765	7,500,265.65	1.99
Used for Cultivation									
Hoe.....	57,671	3,474.92	6.03	72,753	4,917.44	6.76	810,516	5,087,559.29	6.28
Mekeskesha.....	88,223	4,839.03	5.48	148,712	9,579.09	6.44	890,892	5,389,244.50	6.05
Pick Axe.....	343,376	5,993.55	1.75	458,163	11,728.64	2.56	4,329,010	9,905,805.53	2.29
Tractor.....	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
Deger.....	531,360	4,920.64	0.93	1,350,149	22,370.47	1.66	4,272,091	7,950,082.63	1.86
Erfe (Handle)	529,977	4,953.08	0.93	1,034,078	14,806.27	1.43	4,608,222	8,243,138.10	1.79
Plough-Beam.	536,480	4,885.58	0.91	876,036	10,088.04	1.15	15,058,688	26,360,958.95	1.75
Plough -Tip (Metal)	535,927	4,868.04	0.91	682,770	7,052.94	1.03	18,685,929	25,844,108.21	1.38
Wegel -Tip.....	530,386	4,927.65	0.93	719,884	9,137.46	1.27	4,210,038	6,232,643.45	1.48
Yoke.....	531,578	4,892.24	0.92	734,456	8,180.98	1.11	9,112,985	15,388,853.26	1.69
Used for Harvesting									
Sickle	589,958	5,074.41	0.86	1,396,916	17,108.42	1.22	11,109,346	18,474,886.57	1.66
Used for Threshing									
Hay-Fork (Metal)	6,621	473.52	7.15	9,845	762.09	7.74	100,422	901,212.06	8.97
Hay-Fork (Wood)	464,284	5,258.78	1.13	883,446	12,339.30	1.40	5,284,671	9,625,580.70	1.82
Threshing Stick.....	60,233	4,614.95	7.66	113,046	9,871.10	8.73	324,870	3,575,162.78	11.00
Winnower (Metal)	3,703	694.36	18.75	4,027	770.77	19.14	48,784	927,146.35	19.01
Winnower (Wood)	112,031	3,574.07	3.19	130,588	4,888.15	3.74	1,461,764	5,767,460.66	3.95
Other Farm Equipment									
Carts (Hauling)	1,097	228.66	20.85	1,207	244.78	20.28	2,025,109	53,289,437.79	26.31
Sprayer (Hand Operated)	3,096	338.30	10.93	5,468	714.68	13.07	60,010	805,449.93	13.42
Sprayer (Power Operated)	*	*	*	*	*	*	*	*	*
Tying Tool	-	-	-	-	-	-	-	-	-
Wheelbarrow.....	799	154.82	19.38	872	170.60	19.57	112,450	2,851,698.66	25.36
Animals Used for Ploughing									
Asses	3,085	472.48	15.32	3,743	565.09	15.10	1,817,973	28,967,960.20	15.93
Camels	514	176.61	34.35	539	180.92	33.55	907,200	31,275,207.37	34.47
Horses	*	*	*	*	*	*	*	*	*
Mules	151	70.39	46.75	*	*	*	*	*	*
Oxen.....	475,321	4,648.11	0.98	844,845	21,256.05	2.52	643,505,551	870,053,179.00	1.35
Animals Used for Threshing or Transportation									
Asses.....	224,091	3,769.66	1.68	293,767	7,506.80	2.56	80,452,942	161,544,659.01	2.01
Camels	10,494	1,037.11	9.88	23,639	3,434.42	14.53	31,380,177	433,099,158.30	13.80
Cattle.....	487,143	4,798.65	0.99	1,162,895	24,488.10	2.11	823,638,127	1,359,263,554.51	1.65
Horses	1,138	223.85	19.68	1,290	269.85	20.91	595,014	12,196,807.86	20.50
Mules	5,030	485.16	9.64	6,024	614.71	10.20	5,822,048	60,348,599.02	10.37
Storage Structure									
Dibignit.....	407,035	7,179.77	1.76	1,388,697	34,937.87	2.52	13,327,857	42,316,319.17	3.18
Gottera	213,453	6,590.86	3.09	549,341	23,850.67	4.34	10,209,638	51,782,207.10	5.07
Gudguad.....	22,633	1,397.98	6.18	31,182	2,252.83	7.22	912,175	9,893,653.29	10.85
odern Storage.....	1,141	216.64	18.98	2,785	620.96	22.30	42,732	983,885.91	23.02

ANNEX TABLE 8.2:- Standad Errors and Coefficient of Variation For the Number of Holders Reporting , Quantity

Reported and Total Value, for Private Holdings, West Tigray

Implements, Equipment, Farm animals and Storage facilities	Number of Holders			Number of Implements, Equipment, Farm animals and Storages			Total Value		
	Reporting	S.E	C.V	Reported	S.E	C.V	(Birr)	S.E	C.V
Used for Clearing Land									
Axe.....	140,348	3,265.73	2.33	211,374	6,943.94	3.29	3,594,307	12,209,503.30	3.40
Gejera.....	82,956	3,290.79	3.97	95,240	4,110.47	4.32	1,492,943	7,669,703.30	5.14
Shovel.....	74,908	2,288.33	3.05	80,865	2,621.67	3.24	1,141,187	4,367,839.43	3.83
Used for Cultivation									
Hoe.....	23,469	2,228.94	9.50	29,275	2,993.49	10.23	330,053	2,956,209.14	8.96
Mekeskesha.....	27,363	2,818.80	10.30	48,834	5,370.96	11.00	333,824	3,334,934.24	9.99
Pick Axe.....	89,843	3,756.54	4.18	124,907	7,371.81	5.90	1,267,860	6,226,071.35	4.91
Tractor.....	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
Deger.....	140,724	3,121.37	2.22	329,589	9,187.31	2.79	1,034,492	3,492,845.28	3.38
Erfe (Handle)	138,873	3,117.24	2.24	253,585	6,901.01	2.72	751,127	3,159,460.94	4.21
Plough-Beam.	141,294	3,138.96	2.22	217,574	5,284.79	2.43	2,209,800	7,066,580.04	3.20
Plough -Tip (Metal)	140,238	3,110.23	2.22	175,650	4,094.57	2.33	6,279,145	17,144,387.22	2.73
Wegel -Tip.....	139,449	3,126.42	2.24	183,547	4,560.03	2.48	1,411,592	3,685,452.02	2.61
Yoke.....	140,843	3,140.84	2.23	200,252	4,749.43	2.37	1,668,631	5,748,784.76	3.45
Used for Harvesting									
Sickle	153,278	3,169.87	2.07	318,906	8,461.19	2.65	4,116,652	13,730,753.29	3.34
Used for Threshing									
Hay-Fork (Metal)	1,383	211.98	15.32	2,194	352.75	16.08	13,621	262,940.65	19.30
Hay-Fork (Wood)	114,688	3,237.29	2.82	204,606	6,855.44	3.35	941,846	3,705,779.73	3.93
Threshing Stick.....	22,660	3,197.86	14.11	43,848	6,641.58	15.15	97,802	1,411,136.68	14.43
Winnower (Metal)	916	369.85	40.36	969	389.53	40.21	10,751	423,924.19	39.43
Winnower (Wood)	33,662	2,426.58	7.21	39,401	2,935.75	7.45	235,254	1,870,419.31	7.95
Other Farm Equipment									
Carts (Hauling)	831	210.09	25.28	914	222.79	24.37	1,902,366	52,734,360.63	27.72
Sprayer (Hand Operated)	707	144.47	20.44	1,215	263.76	21.70	18,393	419,382.97	22.80
Sprayer (Power Operated)	*	*	*	*	*	*	*	*	*
Tying Tool	-	-	-	-	-	-	-	-	-
Wheelbarrow.....	131	56.95	43.37	184	88.00	47.75	*	*	*
Animals Used for Ploughing									
Asses	677	230.08	33.98	762	253.34	33.26	435,701	15,041,638.70	34.52
Camels	381	149.08	39.15	381	149.08	39.15	665,841	26,342,924.88	39.56
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Oxen.....	131,411	3,034.34	2.31	256,809	10,685.98	4.16	205,336,967	622,898,968.64	3.03
Animals Used for Threshing or Transportation									
Asses.....	63,181	2,133.04	3.38	81,025	5,126.71	6.33	25,731,451	104,509,170.18	4.06
Camels	3,392	631.19	18.61	4,062	982.23	24.18	7,073,511	186,092,143.27	26.31
Cattle.....	133,126	3,011.95	2.26	345,372	15,674.20	4.54	262,311,508	998,790,674.79	3.81
Horses	304	136.54	44.90	338	147.45	43.57	198,949	8,348,774.34	41.96
Mules	1,064	193.56	18.18	1,128	204.16	18.10	1,146,202	21,687,296.27	18.92
Storage Structure									
Dibignit.....	98,999	4,090.02	4.13	270,340	24,902.32	9.21	2,391,484	21,002,852.96	8.78
Gottera	113,707	4,038.99	3.55	305,231	14,231.80	4.66	5,595,052	28,234,134.80	5.05
Gudguad.....	324	136.29	42.08	*	*	*	*	*	*
Modern Storage	524	140.55	26.81	1,044	286.32	27.43	17,731	547,619.83	30.89

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

Implements, Equipment, Farm animals and Storage facilities	Number of Holders			Number of Implements, Equipment, Farm animals and Storages			Total Value		
	Reporting	S.E	C.V	Reported	S.E	C.V	(Birr)	S.E	C.V
Used for Clearing Land									
Axe.....	156,480	2,699.02	1.72	243,492	8,213.85	3.37	2,599,341	8,006,443.86	3.08
Gejera.....	110,501	3,684.27	3.33	124,383	4,477.83	3.60	1,244,150	5,258,949.55	4.23
Shovel	102,752	2,717.89	2.65	109,112	2,967.43	2.72	1,121,969	3,437,474.62	3.06
Used for Cultivation									
Hoe.....	18,263	2,202.89	12.06	24,840	3,348.92	13.48	223,625	2,884,817.38	12.90
Mekeskesha.....	25,816	2,922.42	11.32	45,484	6,452.91	14.19	235,827	2,876,087.78	12.20
Pick Axe.....	108,031	3,236.59	3.00	157,142	7,426.78	4.73	1,169,637	4,409,516.49	3.77
Tractor.....	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
Deger.....	169,430	2,551.93	1.51	525,796	16,520.53	3.14	1,647,228	5,448,167.56	3.31
Erfe (Handle)	170,480	2,606.33	1.53	377,840	10,234.96	2.71	1,476,323	4,564,925.13	3.09
Plough-Beam.	174,326	2,477.40	1.42	327,548	6,634.07	2.03	4,468,422	14,358,178.25	3.21
Plough -Tip (Metal)	174,272	2,406.59	1.38	226,536	3,707.24	1.64	5,647,314	13,263,978.53	2.35
Wegel -Tip	172,277	2,477.37	1.44	244,202	4,886.18	2.00	1,252,213	2,998,504.96	2.39
Yoke.....	173,228	2,507.75	1.45	255,849	4,797.34	1.88	2,559,085	7,203,032.95	2.81
Used for Harvesting									
Sickle	195,135	2,549.22	1.31	538,178	9,200.23	1.71	3,228,786	8,682,782.65	2.69
Used for Threshing									
Hay-Fork (Metal)	1,842	275.06	14.94	2,559	409.37	16.00	26,197	444,176.74	16.96
Hay-Fork (Wood)	155,545	2,930.07	1.88	307,911	7,030.75	2.28	1,708,131	5,647,817.54	3.31
Threshing Stick.....	16,721	2,472.08	14.78	32,085	5,598.76	17.45	69,677	1,209,796.20	17.36
Winnower (Metal)	*	*	*	*	*	*	*	*	*
Winnower (Wood)	9,595	1,401.24	14.60	13,886	2,351.79	16.94	96,378	1,553,329.92	16.12
Other Farm Equipment									
Carts (Hauling)	*	*	*	*	*	*	*	*	*
Sprayer (Hand Operated)	932	163.20	17.50	1,601	364.10	22.75	11,739	235,127.28	20.03
Sprayer (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tool	-	-	-	-	-	-	-	-	-
Wheelbarrow.....	255	97.46	38.21	255	97.46	38.21	30,471	1,229,923.18	40.36
Animals Used for Ploughing									
Asses.....	760	229.59	30.22	893	280.64	31.44	384,293	14,331,584.23	37.29
Camels	*	*	*	*	*	*	*	*	*
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Oxen.....	152,389	2,250.46	1.48	253,307	8,219.58	3.24	196,007,297	389,058,987.67	1.98
AnimalsUsed for Threshing									
Asses.....	56,602	1,983.36	3.50	73,719	2,696.29	3.66	20,860,142	78,855,865.59	3.78
Camels	2,872	531.81	18.52	3,637	687.50	18.90	5,314,082	102,257,490.00	19.24
Cattle.....	157,212	2,380.71	1.51	379,036	15,188.75	4.01	260,823,538	662,629,975.92	2.54
Horses	*	*	*	*	*	*	*	*	*
Mules	1,158	301.19	26.00	1,405	382.51	27.23	1,262,797	34,788,389.07	27.55
Storage Structure									
Dibignit.....	186,325	3,815.08	2.05	793,572	20,353.81	2.56	7,734,881	30,078,096.36	3.89
Gottera	28,050	3,566.61	12.72	95,710	16,077.34	16.80	1,626,550	38,158,665.87	23.46
Gudguad.....	944	238.15	25.23	2,683	806.45	30.06	47,623	1,281,224.51	26.90
Modern Storage	213	92.15	43.33	827	406.93	49.23	*	*	*

ANNEX TABLE 8.4:- Standad Errors and Coefficient of Variation For the Number of Holders Reporting , Quantity

Reported and Total Value, for Private Holdings, East Tigray.

Implements, Equipment, Farm animals and Storage facilities	Number of Holders			Number of Implements, Equipment, Farm animals and Storages			Total Value		
	Reporting	S.E	C.V	Reported	S.E	C.V	(Birr)	S.E	C.V
Used for Clearing Land									
Axe.....	68,481	1,935.54	2.83	87,559	3,080.90	3.52	1,173,225	4,945,594.59	4.22
Gejera.....	14,688	1,155.51	7.87	15,778	1,291.81	8.19	178,022	1,651,371.66	9.28
Shovel.....	58,638	1,882.16	3.21	62,828	2,117.23	3.37	887,859	4,295,582.38	4.84
Used for Cultivation									
Hoe.....	5,038	961.89	19.09	6,335	1,369.09	21.61	113,018	2,245,154.98	19.87
Mekeskeshia.....	22,011	2,054.47	9.33	34,839	3,476.29	9.98	206,215	2,612,757.98	12.67
Pick Axe.....	57,065	2,084.60	3.65	63,291	2,661.49	4.21	897,598	4,551,772.08	5.07
Tractor.....	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
Deger.....	88,829	1,655.42	1.86	212,513	7,915.79	3.72	850,331	3,403,548.98	4.00
Erfe (Handle)	87,885	1,668.38	1.90	148,930	4,664.06	3.13	1,146,189	4,181,197.81	3.65
Plough-Beam.	88,234	1,697.54	1.92	118,764	2,804.07	2.36	4,094,540	13,837,938.68	3.38
Plough -Tip (Metal)	90,130	1,661.05	1.84	117,703	2,846.52	2.42	3,167,553	9,153,405.44	2.89
Wegel -Tip	87,204	1,728.55	1.98	118,707	3,781.29	3.19	663,462	2,321,792.03	3.50
Yoke.....	87,543	1,672.65	1.91	105,082	2,906.87	2.77	2,430,145	8,635,013.13	3.55
Used for Harvesting									
Sickle	96,309	1,852.66	1.92	221,054	6,144.58	2.78	1,674,209	6,079,377.82	3.63
Used for Threshing									
Hay-Fork (Metal)	1,642	226.78	13.81	2,423	347.44	14.34	34,689	569,097.51	16.41
Hay-Fork (Wood)	79,995	1,955.14	2.44	155,999	5,239.05	3.36	1,419,326	5,387,826.88	3.80
Threshing Stick	13,832	1,897.35	13.72	25,638	4,156.06	16.21	82,619	1,420,434.23	17.19
Winnower (Metal)	1,001	349.08	34.87	1,172	428.90	36.60	15,699	602,684.48	38.39
Winnower (Wood)	4,535	831.16	18.33	6,341	1,863.94	29.40	94,014	1,781,589.93	18.95
Other Farm Equipment									
Carts (Hauling)	*	*	*	*	*	*	*	*	*
Sprayer (Hand Operated)	560	120.85	21.57	1,193	265.24	22.24	11,469	271,331.96	23.66
Sprayer (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tool	-	-	-	-	-	-	-	-	-
Wheelbarrow.....	301	84.91	28.17	321	88.57	27.56	60,844	2,319,487.70	38.12
Animals Used for Ploughing									
Asses	816	263.49	32.27	1,077	327.67	30.43	596,032	12,272,581.09	20.59
Camels	-	-	-	-	-	-	-	-	-
Horses	-	-	-	-	-	-	-	-	-
Mules	*	*	*	*	*	*	*	*	*
Oxen.....	73,288	1,551.59	2.12	105,464	2,740.22	2.60	82,624,976	219,016,187.24	2.65
AnimalsUsed for Threshing or Transportation									
Asses	34,043	1,276.91	3.75	42,393	1,810.35	4.27	11,547,435	50,213,699.33	4.35
Camels	222	94.27	42.40	542	231.60	42.71	740,515	34,549,128.21	46.66
Cattle.....	74,215	1,818.79	2.45	152,893	6,753.95	4.42	107,262,447	345,242,637.48	3.22
Horses	186	85.05	45.61	205	89.06	43.49	92,816	4,260,184.04	45.90
Mules	851	175.51	20.64	1,195	261.27	21.86	1,172,604	26,004,588.83	22.18
Storage Structure									
Dibignit	61,673	3,018.70	4.89	198,731	10,908.32	5.49	1,995,417	15,066,316.30	7.55
Gottera	19,199	2,193.26	11.42	61,989	7,928.00	12.79	829,925	14,240,317.48	17.16
Gudguad.....	830	276.59	33.34	1,928	803.43	41.66	25,137	1,041,279.35	41.42
Modern Storage	*	*	*	*	*	*	*	*	*

ANNEX TABLE 8.5:- Standad Errors and Coefficient of Variation For the Number of Holders Reporting , Quantity

Reported and Total Value, for Private Holdings, South Tigray.

Implements, Equipment, Farm animals and Storage facilities	Number of Holders			Number of Implements, Equipment, Farm animals and Storages			Total Value		
	Reporting	S.E	C.V	Reported	S.E	C.V	(Birr)	S.E	C.V
Used for Clearing Land									
Axe.....	116,008	2,509.08	2.16	172,963	8,656.38	5.00	1,413,054	9,414,025.23	6.66
Gejera.....	75,704	3,040.91	4.02	82,007	3,432.24	4.19	1,034,603	5,812,117.96	5.62
Shovel.....	54,537	1,980.25	3.63	57,353	2,145.44	3.74	616,750	2,628,251.10	4.26
Used for Cultivation									
Hoe.....	10,901	1,152.79	10.57	12,304	1,459.64	11.86	143,821	1,944,529.47	13.52
Mekeskesha.....	13,033	1,645.97	12.63	19,555	3,031.04	15.50	115,025	1,680,412.08	14.61
Pick Axe.....	88,438	2,643.85	2.99	112,823	4,580.04	4.06	993,915	4,381,615.46	4.41
Tractor.....	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
Deger.....	132,377	2,284.09	1.73	282,251	8,969.04	3.18	740,040	3,120,443.91	4.22
Erfe (Handle)	132,738	2,288.97	1.72	253,723	6,715.21	2.65	1,234,582	4,432,400.68	3.59
Plough-Beam.	132,626	2,235.32	1.69	212,150	4,686.77	2.21	4,285,926	15,726,340.12	3.67
Plough -Tip (Metal)	131,287	2,339.55	1.78	162,881	3,336.50	2.05	3,591,916	10,689,712.73	2.98
Wegel -Tip	131,456	2,319.91	1.76	173,428	4,952.41	2.86	882,771	3,298,717.56	3.74
Yoke.....	129,965	2,232.18	1.72	173,273	3,592.62	2.07	2,455,125	8,793,244.17	3.58
Used for Harvesting									
Sickle	145,236	2,402.21	1.65	318,779	9,935.09	3.12	2,089,698	6,359,111.46	3.04
Used for Threshing									
Hay-Fork (Metal)	1,754	228.47	13.03	2,670	409.93	15.36	25,916	471,041.85	18.18
Hay-Fork (Wood)	114,057	2,183.31	1.91	214,930	5,327.49	2.48	1,215,368	4,241,754.22	3.49
Threshing Stick.....	7,020	1,166.34	16.62	11,474	2,170.03	18.91	74,773	2,703,560.97	36.16
Winnower (Metal)	952	198.05	20.81	1,015	223.80	22.04	16,953	482,967.36	28.49
Winnower (Wood)	64,239	2,057.03	3.20	70,960	2,504.03	3.53	1,036,118	4,917,137.13	4.75
Other Farm Equipment									
Carts (Hauling)	178	79.48	44.69	178	79.48	44.69	*	*	*
Sprayer (Hand Operated)	897	228.77	25.52	1,459	488.13	33.45	18,409	586,482.44	31.86
Sprayer (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tool	-	-	-	-	-	-	-	-	-
Wheelbarrow.....	*	*	*	*	*	*	*	*	*
Animals Used for Ploughing									
Asses	831	219.46	26.40	1,012	262.72	25.97	401,947	16,027,516.04	39.87
Camels	-	-	-	-	-	-	-	-	-
Horses	*	*	*	*	*	*	*	*	*
Mules	*	*	*	*	*	*	*	*	*
Oxen.....	118,233	2,219.39	1.88	229,265	16,203.68	7.07	159,536,311	411,891,275.70	2.58
Animals Used for Threshing									
Asses	70,264	2,023.93	2.88	96,630	4,418.32	4.57	22,313,914	80,217,498.50	3.59
Camels	4,008	620.88	15.49	15,398	3,210.01	20.85	18,252,070	375,891,418.65	20.59
Cattle.....	122,590	2,231.48	1.82	285,595	8,813.22	3.09	193,240,634	540,132,978.86	2.80
Horses	581	141.99	24.42	681	197.67	29.01	293,392	7,745,634.26	26.40
Mules	1,957	276.40	14.12	2,296	348.72	15.19	2,240,446	35,848,904.16	16.00
Storage Structure									
Dibignit.....	60,037	3,339.69	5.56	126,054	8,201.23	6.51	1,206,076	14,760,259.77	12.24
Gottera	52,496	3,097.57	5.90	86,410	6,706.43	7.76	2,158,110	15,012,001.26	6.96
Gudguad.....	20,535	1,342.59	6.54	25,159	1,773.47	7.05	769,200	7,256,293.37	9.43
Modern Storage	220	88.73	40.42	431	195.37	45.29	9,357	441,275.99	47.16