

**FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA
CENTRAL STATISTICAL AUTHORITY**

**AGRICULTURAL SAMPLE SURVEY
2003/2004[1996 E.C.]**

VOLUME II

**REPORT ON
LIVESTOCK AND LIVESTOCK CHARACTERISTICS
(PRIVATE PEASANT HOLDINGS)**

302

STATISTICAL BULLETIN

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Abbreviations

| | | |
|------------|---|---|
| CSA | - | Central Statistical Authority |
| CV | - | Coefficient of Variation |
| E.C. | - | Ethiopian Calendar |
| EA | - | Enumeration Area |
| SE | - | Standard Error |
| S.N.N.P.R. | - | Southern Nation Nationalities and People's Region |

CHAPTER I

INTRODUCTION AND OBJECTIVES OF THE SURVEY

1.1 INTRODUCTION

Ethiopia is believed to have the largest livestock population in Africa. This livestock sector has been contributing considerable portion to the economy of the country, and still promising to rally round the economic development of the country. It is eminent that livestock products and by-products in the form of meat, milk, honey, eggs, cheese, and butter supply the needed animal protein that contribute to the improvement of the nutritional status of the people. Livestock also plays an important role in providing export commodities, such as live animals, hides, and skins to earn foreign exchanges to the country. On the other hand, draught animals provide power for the cultivation of the smallholdings and for crop threshing virtually all over the country and are also essential modes of transport to take holders and their families long-distances, to convey their agricultural products to the market places and bring back their domestic necessities. Livestock as well confer a certain degree of security in times of crop failure, as they are a “near-cash” capital stock. Furthermore, livestock provides farmyard manure that is commonly applied to improve soil fertility and also used as a source of energy.

Due to the very important role that the livestock sector plays in the economy of the country, formulation of development plan regarding the sector is indispensable. It is therefore imperative that livestock development plans should be formulated on the basis of reliable statistical data, and hence, timely and accurate livestock data are required for the formulation, implementation, monitoring, and evaluation of development plan and program in the sector. These livestock data can be generated usually using surveys and censuses. The Central Statistical Authority (CSA) has been generating livestock data through sample surveys since 1981 (1973 E.C.) on annual basis. CSA has also undertaken the first ever agricultural census in the year 2001/02. However, the annual survey was not conducted in 2003 due to the huge data to be processed from the 2001/02 Ethiopian Agricultural Sample Enumeration. And this

survey recommenced in 2004 as part of the agricultural sample survey by maintaining almost all data items that were included in the census.

In this report: estimates of livestock that include cattle, sheep, goats, draught animals (horses, mules, asses and camels), poultry and beehives were made based on the information obtained from the holders within the sampled agricultural households in rural sedentary areas of the country as to the reference date (February 9, 2004) and reference period (February 9, 2003 to February 9, 2004). The results obtained from the livestock survey for the rural sedentary areas of the country as well as brief discussions made on the results are presented in this report. In addition, the survey results at regional and zonal levels are presented in Statistical Tables 3.1 – 3.26, and the standard errors (SE), and coefficients of variation (CV) are given in Annex Tables 1 - 10 for some variables.

1.2 OBJECTIVES OF THE SURVEY

The general objective of the livestock survey is to produce data that could be used for development planning and policy formulation regarding the sector, and the specific objectives are to purvey quantitative information on the size and characteristics of livestock in rural sedentary areas at zonal level. In order to meet these objectives, data on: livestock number by type, age, sex, purpose and breed; livestock products particularly milk, egg, and honey; livestock diseases and vaccination; and animal feed were collected from sampled agricultural households in rural sedentary areas.

CHAPTER II SURVEY METHODOLOGY AND OPERATIONS

2.1 SCOPE AND COVERAGE

The 2004 (1996 E.C.) livestock survey, which is part of the annual agricultural sample survey, covered the entire rural parts of the country except three zones of Afar regional state, six zones of Somali regional state where its inhabitants are predominantly pastoralists, and the whole of Gambella Region. Accordingly the survey took into account of all parts of Harari, Addis Ababa and Dire Dawa, and 61 additional Zones / Special weredas (that are treated as zones) of other regions.

To be covered by the survey, a total of 2,072 enumeration areas were selected initially, however, due to various reasons that are beyond the control of the CSA 60 EA's were not covered and the survey was successfully carried out in 2,012 (97.1%) EA's. As regards the ultimate sampling unit, it was planned to conduct the survey on 51,800 agricultural households and 50,201 (96.91%) households were actually covered by the sample survey. Distribution of the number of sampling units (planned and covered) by domain of estimation is tabulated in Appendix I.

2.2 SAMPLE DESIGN

A stratified two-stage cluster sample design was used to select the sample. Enumeration areas (EA's) were taken to be the primary sampling units (PSU's) and the secondary sampling units (SSU's) were agricultural households. Sample enumeration areas from each stratum were sub-samples of the 2001/2 (1994 E.C) Ethiopian Agricultural Sample Enumeration. They were selected using probability proportional to size systematic sampling; size being number of agricultural households obtained from the 1994 Population & Housing Census and adjusted for the sub-sampling effect. Within each sample EA a fresh list of households was prepared and 25 agricultural households from each sample EA were systematically selected at the second stage. The survey questionnaire was finally administered for those 25 agricultural households selected at the second stage.

The sample size for the 2003/4 agricultural sample survey was determined by taking into account of both the required level of precision for the most important estimates within each domain and the amount of resources allocated to the survey. In order to reduce non-sampling errors manageability of the survey in terms of quality and operational control was also in addition considered.

Except Harari, Addis Ababa and Dire Dawa, where the regions as a whole was taken to be the domain of estimation, each zone of a region / special wereda that is considered to be a zone by itself was adopted as a stratum for which major findings of the survey are reported.

Estimation procedure for totals & ratios and their sampling errors are given in Appendix II. Estimates of standard errors and Coefficient of Variations for selected estimates are also presented in the Annex Tables.

2.3 BASIC CONCEPTS AND DEFINITIONS

It is thought essential that the definitions used for some key terms in the survey should be laid open and these are given as follows.

Enumeration Area (EA): An enumeration area in rural parts of the Country is a locality that is less than or equal to a farmer's association area and usually it consists of 150-200 households.

Households: A household may be either;

a) A one person household, that is a person who makes provision for his own food or other essentials for living without combining with any other person to form part of a multi person household or

b) A multi person household, that is, a group of two or more persons who live together and make common provision for food or other essentials for living. The persons in the group may pool their incomes and have a common budget to greater or lesser extent. They may be related or unrelated persons, or a combination of both.

Agricultural Households: A household is considered an agricultural household when at least one member of the household is engaged in growing crops and /or breeding and raising livestock in private or in partnership with others.

Holder: A holder is a person who exercises management control over the operations of the agricultural holding and takes the major decision regarding the utilization of the available resources. He also has technical and economic responsibility for the holding. He may operate the holding directly as an owner or as a manager.

Under conditions of traditional agricultural holding the holder may be regarded as the person, who with or without help of others, operates land or raises livestock in his own right, i.e. the person who decides on what, when, where and how to grow crops or raise livestock and has right to determine the utilization of the products.

Holding: A holding is all the land and/or livestock kept which is used wholly or partly for agricultural production and is operated as one technical unit by one person alone, or with others, without regard to title, legal form, size or location.

Draught Animal: For this survey, it refers to animals that are engaged in activities such as ploughing, threshing... etc.

Dairy Cow: Refers to any type of cow used to give milk previously and/or provide milk currently or have never given milk before and pregnant now. Heifers are not included in this category.

Milking Cow: Refers to cows actually milked during the year, Feb. 9, 2003 to Feb. 9, 2004.

Meat Purpose: Cattle, Sheep, and Goats reared only for meat purpose either for home consumption and/or for sale, are defined as animals used for meat purpose.

Laying Hens: Refer to all hens and pullets of all types, which have laid eggs during the year Feb. 9, 2003 to Feb. 9, 2004.

Other Purposes: Cattle which participate in activities such as transporting and the like other than animals kept for draught, milk and beef purposes are categorized as cattle for other purposes. Moreover, Sheep and Goats that are kept for other purposes other than breeding, wool, meat, and milk production are included in this category.

2.4 FIELD ORGANIZATION

The entire 25 branch statistical offices of the CSA participated in the survey undertaking, especially in organizing the second stage training, in deploying the field staff to their respective sites of assignment, and retrieving completed questionnaires and submitting them to the head office for data processing. They were also responsible in administering the financial and logistic aspect of the survey within the areas of their assignment. In the data collection of the survey, a total of 2,154 enumerators and 442 field supervisors were involved with an average supervisor-enumerator ratio of 1-to-5. To accomplish the data collection operation, all the enumerators were supplied with the necessary survey equipment at the completion of the training. To assist the data collection activities in deployment, supervision, and retrieval of completed questionnaires, reasonably adequate four-wheel vehicles were used.

2.5 TRAINING OF FIELD STAFF

The field staff-training program was carried out in two stages. The first-stage consisted of trainees from the head office, Branch Statistical Office heads, and some of the field supervisors. The training was given for one week at CSA's headquarters in Addis Ababa. Many of these personnel trained in the first-stage conducted similar training for field supervisors and enumerators for about two weeks in branch offices, which are distributed around the country. During this second-stage training, the field

staff were given detailed classroom instruction on the objectives and uses of the survey, concepts and definitions of terms used, interviewing procedures, how to fill questionnaires, ...etc. The enumerators' training also includes a field practice to reinforce the concepts discussed in the classroom.

2.6 METHOD OF DATA COLLECTION

In each selected EAs, a fresh list of households was prepared and then agricultural households were identified from the list of households. From these identified agricultural households, 25 agricultural households were selected using systematic sampling techniques. Thus all agricultural holders belonging to each selected agricultural households were interviewed and the appropriate data were collected. The reference date for enumerating livestock, poultry, & beehives was February 9, 2004 (Yekatit 1/1996 E.C.).

2.7 DATA PROCESSING

2.7.1 Editing, Coding, and Verification

The editing and coding instruction manuals were prepared, and intensive training was given to the editor-coders. Those trained editors-coders were accomplished the editing and coding tasks. In due course, professional staff members were assigned to facilitate the editing and coding activities and the edited and coded questionnaires were verified by statistical technicians as well as by professionals.

2.7.2 Data Entry, Cleaning, and Processing

The data was entered by data encoders in personal computers using IMPS (Integrated Microcomputer Processing System) software. Then the data was checked and cleaned by regular staff members. Finally, the data processing activity was also done by personal computers (PCs) to produce results that were indicated in the tabulation plan.

CHAPTER III SUMMARY OF THE SURVEY RESULTS

3.1 LIVESTOCK NUMBER BY BREED, AGE, SEX, AND PURPOSE

The livestock survey that was carried-out has covered the rural sedentary areas of the country on sample basis. The total number of each type of livestock as well as the numbers disaggregated by breed, age, sex, and purpose possessed by holders on the reference date (February 9, 2004), irrespective of ownership, were recorded by interviewing each holder in the sampled agricultural households in the sampled enumeration areas of the country. The numbers also include the livestock belonging to the holding but temporarily away or in transit at the time of the enumeration.

3.1.1 Cattle Population

The estimates of cattle for the rural sedentary areas at country level are presented in Summary Table III.1. As shown on the table, the total cattle population for the country is estimated to be 38,102,682. Out of this total cattle population, the female cattle constitute about 55.75 percent and the remaining 44.25 percent are male cattle.

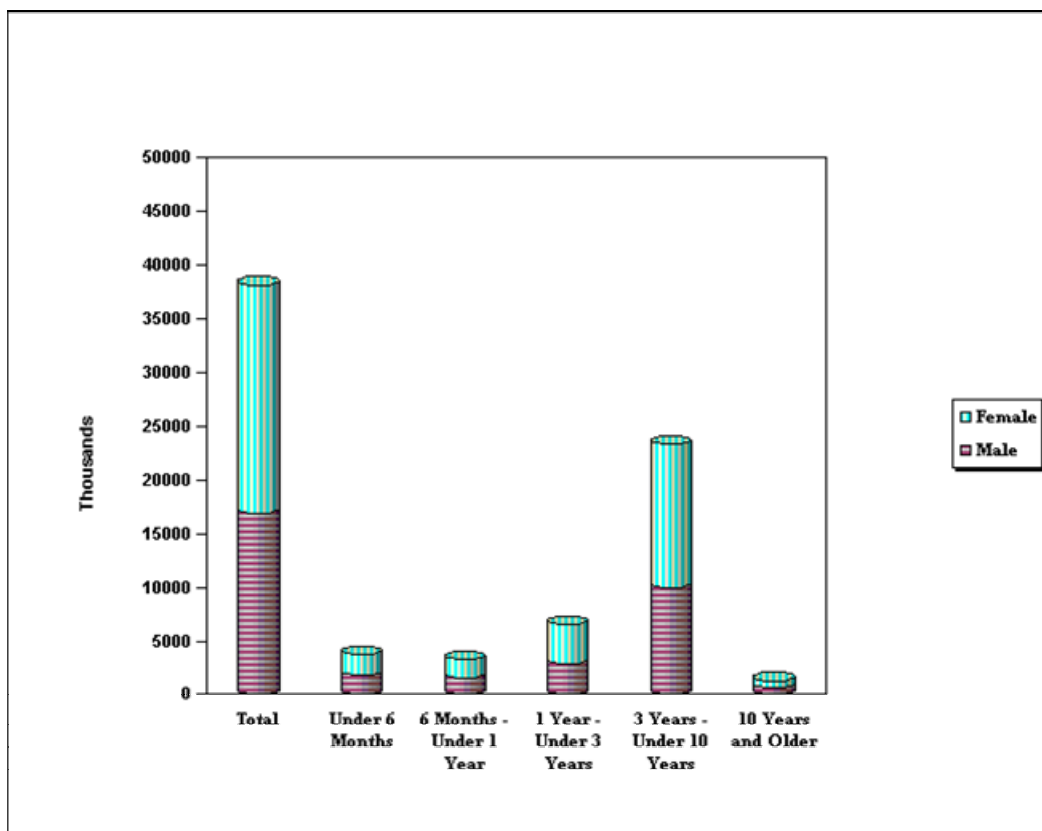
Regarding age groups, the majority of the cattle population (that is about 61.13 percent) is in the 3 years and less than 10 years age category, with about 34.91 percent female and about 26.21 percent male. Moreover, about 35.44 percent are less than three years and those with age category 10 years and over took small portion i.e. 3.43 percent of the total estimated number of cattle population (also see Fig III.1).

On the other hand, the results obtained indicated that 99.28 percent of the total cattle in the country are local breeds. The remaining are hybrid and exotic breeds that accounted for about 0.67 percent and 0.04 percent, respectively. Moreover, distribution of cattle by purpose is indicated in the same table. Among cattle aged 3 years and less than 10 years, those used for draught purposes accounted for 40.17 percent and the percentage share of beef cattle is the lowest that is about 0.81 percent.

SUMMARY TABLE III.1: Estimated Number of Cattle by Sex, Age, Breed, and Purpose for The Country

| Age, Breed, and Purpose | Total | | Male | | Female | |
|-------------------------------------|------------|-------|------------|-------|------------|-------|
| | Number | % | Number | % | Number | % |
| Total | 38,102,682 | 100 | 16,860,266 | 44.25 | 21,242,416 | 55.75 |
| Under 6 months | 3,727,138 | 9.78 | 1,786,233 | 4.69 | 1,940,906 | 5.09 |
| 6 months - under 1 year | 3,260,103 | 8.56 | 1,568,324 | 4.12 | 1,691,778 | 4.44 |
| 1 year – under 3 years | 6,517,138 | 17.1 | 2,898,690 | 7.61 | 3,618,448 | 9.5 |
| 3 years – under 10 years | 23,291,658 | 61.13 | 9,988,239 | 26.21 | 13,303,419 | 34.91 |
| 10 years and older | 1,306,644 | 3.43 | 618,780 | 1.62 | 687,865 | 1.81 |
| Cattle by Breed | | | | | | |
| Total | 38,102,682 | 100 | 16,860,266 | 44.25 | 21,242,416 | 55.75 |
| Indigenous | 37,830,127 | 99.28 | 16,756,692 | 43.98 | 21,073,435 | 55.31 |
| Hybrid | 256,918 | 0.67 | 98,329 | 0.26 | 158,589 | 0.42 |
| Exotic | 15,636 | 0.04 | 5,245 | 0.01 | 10,391 | 0.03 |
| Aged 3 – 10 Years by Purpose | | | | | | |
| Total | 23,291,658 | 100 | 9,988,239 | 42.88 | 13,303,419 | 57.12 |
| Used for Milk | 7,086,577 | 30.43 | | | 7,086,577 | 30.43 |
| Used for Draught | 9,357,009 | 40.17 | 9,237,674 | 39.66 | 119,334 | 0.51 |
| Used for Beef | 189,654 | 0.81 | 144,761 | 0.62 | 44,893 | 0.19 |
| Used for Breeding | 5,443,788 | 23.37 | 281,455 | 1.21 | 5,162,332 | 22.16 |
| Used for Other | 1,214,630 | 5.21 | 324,348 | 1.39 | 890,282 | 3.82 |
| Dairy Animals | | | | | | |
| Dairy Cows | 7,086,577 | 18.6 | | | 7,086,577 | 18.6 |
| Milking Cows | 8,712,548 | 22.87 | | | 8,712,548 | 22.87 |

FIGURE III.1 DISTRIBUTION OF CATTLE BY AGE AND SEX



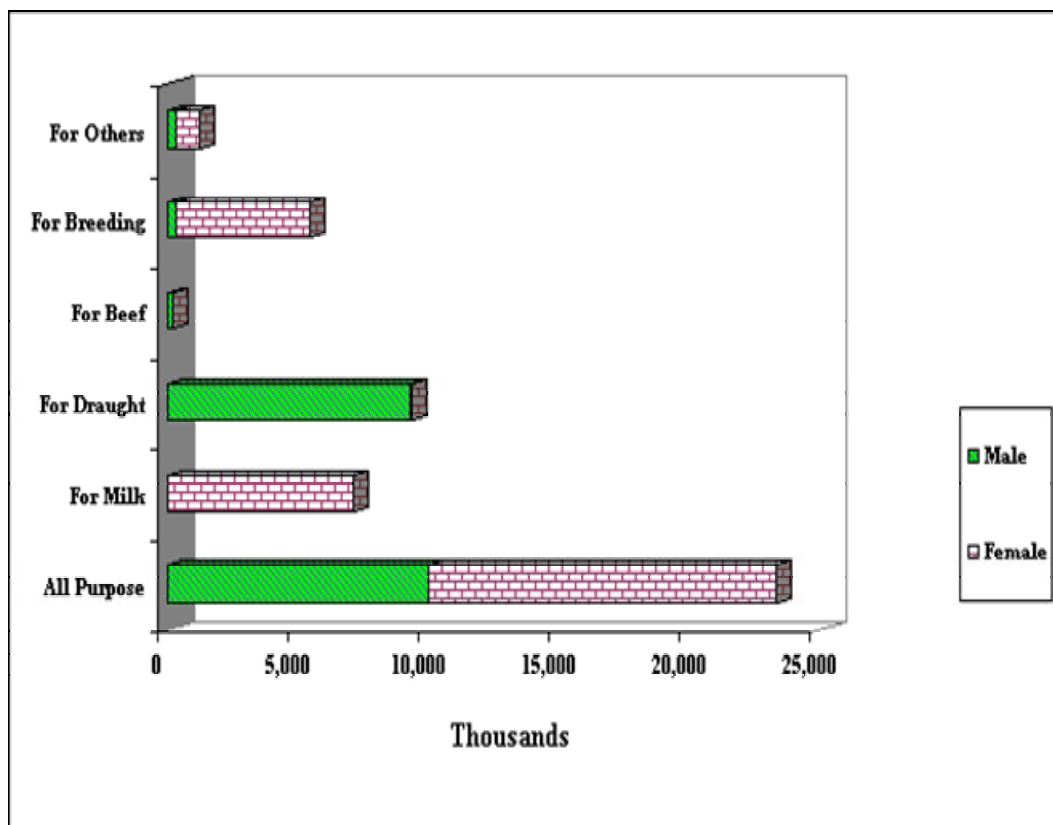
Beef cattle here refer to all cattle reared exclusively for meat that is used either for home consumption or for sale. Further, dairy-cows¹ are estimated to be 7.1 million and milking-cows² are 8.7 million heads.

As to regional level cattle distribution, Oromia Region took the major part that is 44.11 percent; Amhara and S.N.N.P. also contributed significant portions, 25.17 percent, and 20.69 percent, in that order (See Figure III.9). The rest lies between 0.09 percent and 6.68 percent. Moreover, cattle population by sex, age, breed, and purpose are estimated for each region and presented in the Statistical Tables given at the end of this chapter.

¹A Dairy Cow refers to a cow that is primarily kept for milk and has been milked previously or was being milked at the time of enumeration or has never been milked before but expected to be milked in the future or pregnant at the time of enumeration.

²A Milking Cow refers to any type of cow that actually milked during the reference period (Feb. 9, 2003 to Feb. 9, 2004).

FIGURE III.2 DISTRIBUTION OF CATTLE AGED 3 AND UNDER 10 YEARS BY PURPOSE, AND SEX



3.1.2 Sheep And Goat Populations

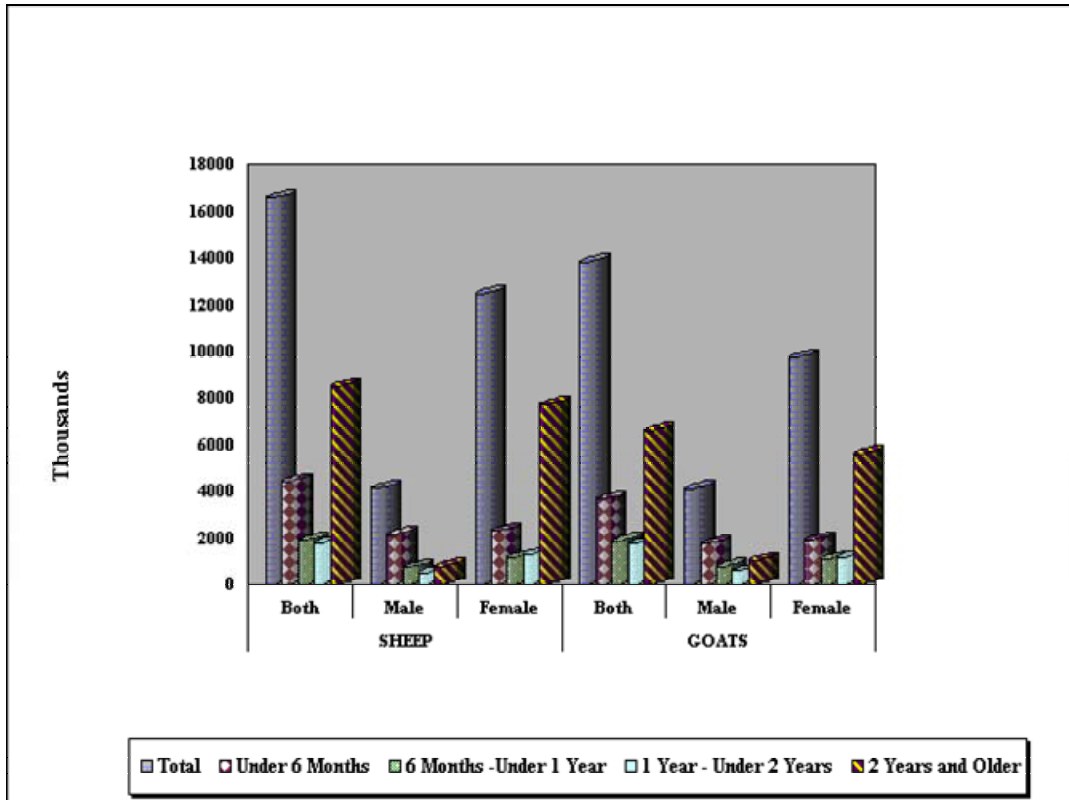
The estimated numbers and percentage distributions of sheep and goats in the sedentary areas of the country are given in Summary Table III.2. As pointed out in this table, about 16,575,493 sheep are estimated to be found in the country, out of which about 75.17 percent are females, and about 24.83 percent are males. Moreover, according to the survey result, the number of goats reported in the country is estimated to be about 13,834,703. Out of these total goats, 70.35 percent are females and 29.65 percent are males (See Summary Table III.2 and Fig. III.3).

SUMMARY TABLE III.2: Estimated Number of Sheep and Goats by Sex, Age, Breed, and Purpose for The Country

| Age, Breed, and Purpose | Total | | Male | | Female | |
|---|------------|-------|-----------|-------|------------|-------|
| | Number | % | Number | % | Number | % |
| Total Sheep | 16,575,493 | 100 | 4,116,478 | 24.83 | 12,459,015 | 75.17 |
| Under 6 months | 4,420,303 | 26.67 | 2,138,852 | 12.9 | 2,281,451 | 13.76 |
| 6 months - under 1 year | 1,873,701 | 11.3 | 726,512 | 4.38 | 1,147,189 | 6.92 |
| 1 year - under 2 years | 1,789,320 | 10.79 | 495,247 | 2.99 | 1,294,073 | 7.81 |
| 2 years and older..... | 8,492,169 | 51.23 | 755,868 | 4.56 | 7,736,302 | 46.67 |
| Sheep by Breed | | | | | | |
| Total..... | 16,575,493 | 100 | 4,116,478 | 24.83 | 12,459,015 | 75.17 |
| Indigenous..... | 16,554,898 | 99.88 | 4,111,273 | 24.8 | 12,443,625 | 75.07 |
| Hybrid..... | 1,787 | 0.01 | 342 | * | 1,444 | 0.01 |
| Exotic..... | 18,809 | 0.11 | 4,863 | 0.03 | 13,946 | 0.08 |
| Sheep Aged 2 Years and Older by Purpose | | | | | | |
| Total..... | 8,492,169 | 100 | 755,868 | 8.9 | 7,736,302 | 91.1 |
| Used for Mutton..... | 330,184 | 3.89 | 296,030 | 3.49 | 34,154 | 0.4 |
| Used for Wool..... | 92,032 | 1.08 | 6,221 | 0.07 | 85,811 | 1.01 |
| Used for Breeding..... | 8,019,160 | 94.43 | 422,780 | 4.98 | 7,596,380 | 89.45 |
| Used for Other | 50,793 | 0.6 | 30,837 | 0.36 | 19,956 | 0.23 |
| Total Goats..... | 13,834,703 | 100 | 4,102,149 | 29.65 | 9,732,553 | 70.35 |
| Under 6 months | 3,642,644 | 26.33 | 1,746,658 | 12.63 | 1,895,985 | 13.7 |
| 6 months - under 1 year | 1,840,569 | 13.3 | 766,329 | 5.54 | 1,074,240 | 7.76 |
| 1 year - under 2 years | 1,741,719 | 12.59 | 578,899 | 4.18 | 1,162,820 | 8.41 |
| 2 years and older..... | 6,609,771 | 47.78 | 1,010,264 | 7.3 | 5,599,507 | 40.47 |
| Goats by Breed | | | | | | |
| Total..... | 13,834,703 | 100 | 4,102,149 | 29.65 | 9,732,553 | 70.35 |
| Indigenous..... | 13,820,684 | 99.9 | 4,099,309 | 29.63 | 9,721,375 | 70.27 |
| Hybrid..... | 13,808 | 0.1 | 2,840 | 0.02 | 10,968 | 0.08 |
| Exotic..... | 210 | * | - | - | 210 | * |
| Goats Aged 2 Years and Older by Purpose | | | | | | |
| Total..... | 6,609,771 | 100 | 1,010,264 | 15.28 | 5,599,507 | 84.72 |
| Used for Milk..... | 514,435 | 7.78 | | | 514,435 | 7.78 |
| Used for Meat..... | 445,072 | 6.73 | 408,432 | 6.18 | 36,640 | 0.55 |
| Used for Breeding..... | 5,588,374 | 84.55 | 562,186 | 8.51 | 5,026,188 | 76.04 |
| Used for Other | 61,891 | 0.94 | 39,646 | 0.6 | 22,245 | 0.34 |

Pertaining to the age distribution of both the sheep and the goats, the largest portions are in the age group of two years and older (51.23 percent and about 47.78 percent, in that order). These are followed by the young stock under six months for both sheep and goats i.e. about 26.67 percent and 26.33 percent, respectively (See Figure III.3).

FIGURE III.3 DISTRIBUTION OF SHEEP AND GOATS BY AGE AND SEX



With respect to breed, almost all of the sheep and the goats are indigenous (99.88 percent and nearly 100 percent, in that order).

Summary Table III.2 also discloses the numbers and percentages of sheep and goats raised for different purposes in the country. The percentages of both sheep and goats kept for mutton and meat are significantly higher for males. Moreover, the data reveals that female sheep and female goats are primarily kept for breeding purposes. Among the sheep flock two years and older, 94.43 percent are kept for breeding; about four percent for mutton and only one percent of the sheep were kept for wool production. Likewise, amid the goat population aged two years and older, goats kept for breeding accounted for about 84.55 percent while goats kept for meat accounted for about 6.73 percent. The number of goats kept for milk at country level is estimated to be 514,435, which is 7.78 percent of the total goats aged two years and older (See Figures III.4 and III.5).

FIGURE III.4 DISTRIBUTION OF SHEEP AGED 2 YEARS AND OLDER BY SEX, AND PURPOSE

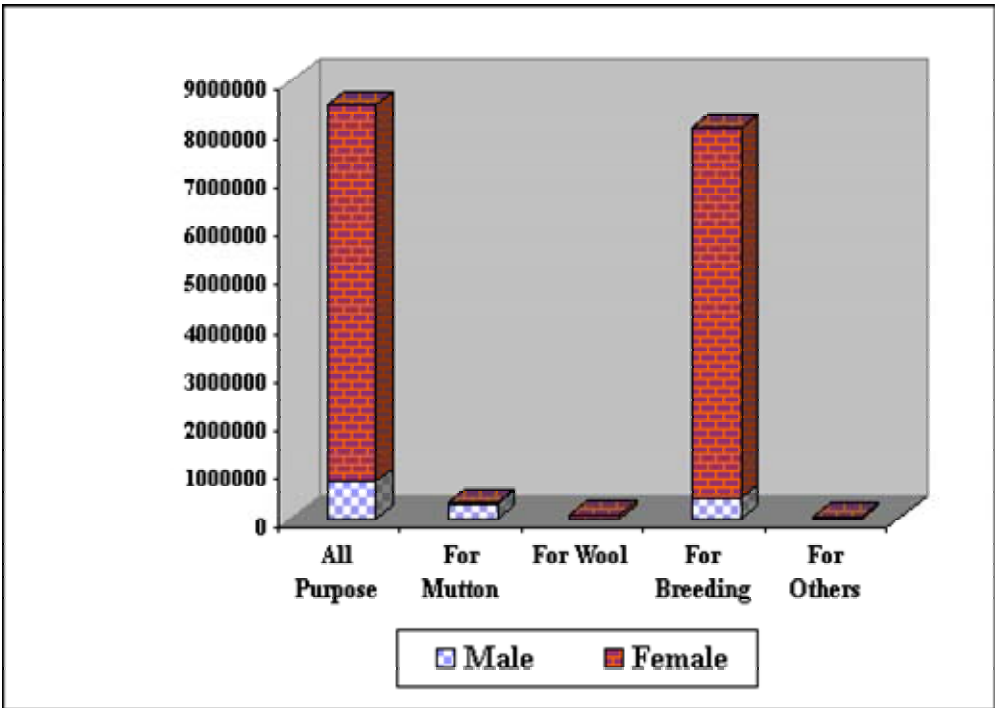
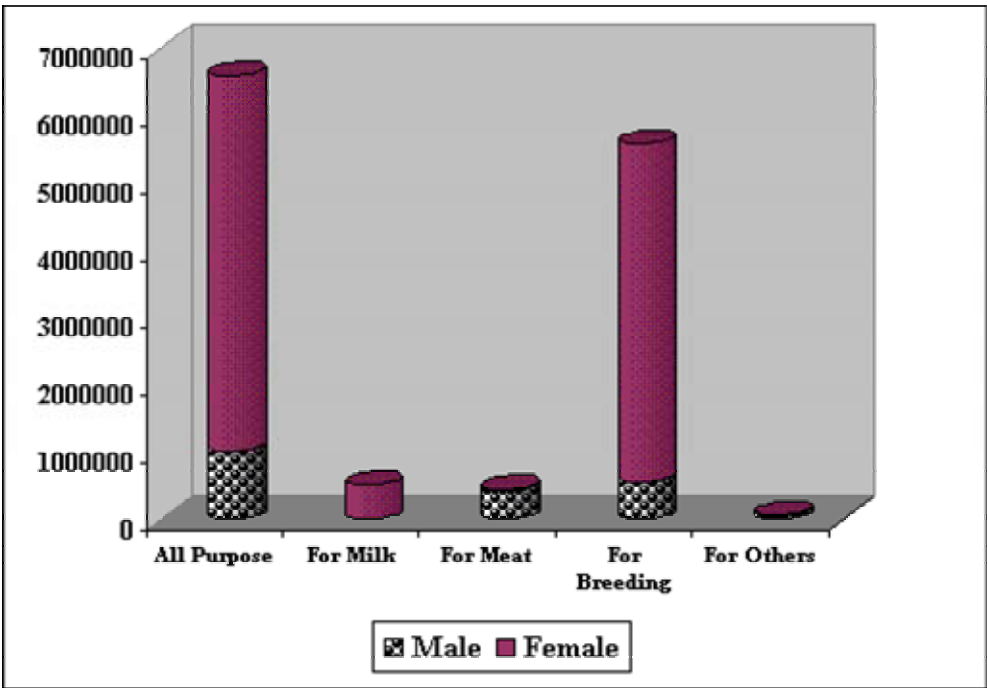


FIGURE III.5 DISTRIBUTION OF GOATS AGED 2 YEARS AND OLDER BY SEX, AND PURPOSE



The numbers and percentage distributions of sheep and goats at regional level are given in the Statistical Tables. Accordingly, Amhara, Oromia, and S.N.N.P. Regions reported considerable portions of the sheep population, which are 36.91 percent, 36.01 percent, and 18.15 percent, respectively. Regarding goat population, Oromia and Amhara Regions are the major contributors to the 2004 goat population of the country, about 29.5 percent and 28.69 percent, in that order. S.N.N.P. and Tigray Regions also reported substantial number of goats (See Figure III.9).

3.1.3 Horse, Ass, Mule And Camel Populations

Summary Table III.3 shows the estimates of horses, asses, mules, and camels for the rural sedentary areas of the country for private holdings. According to the survey result, there are about 1.45 million horses, 3.77 million asses, 321,339 mules, and 471,145 camels in the sedentary areas of the country.

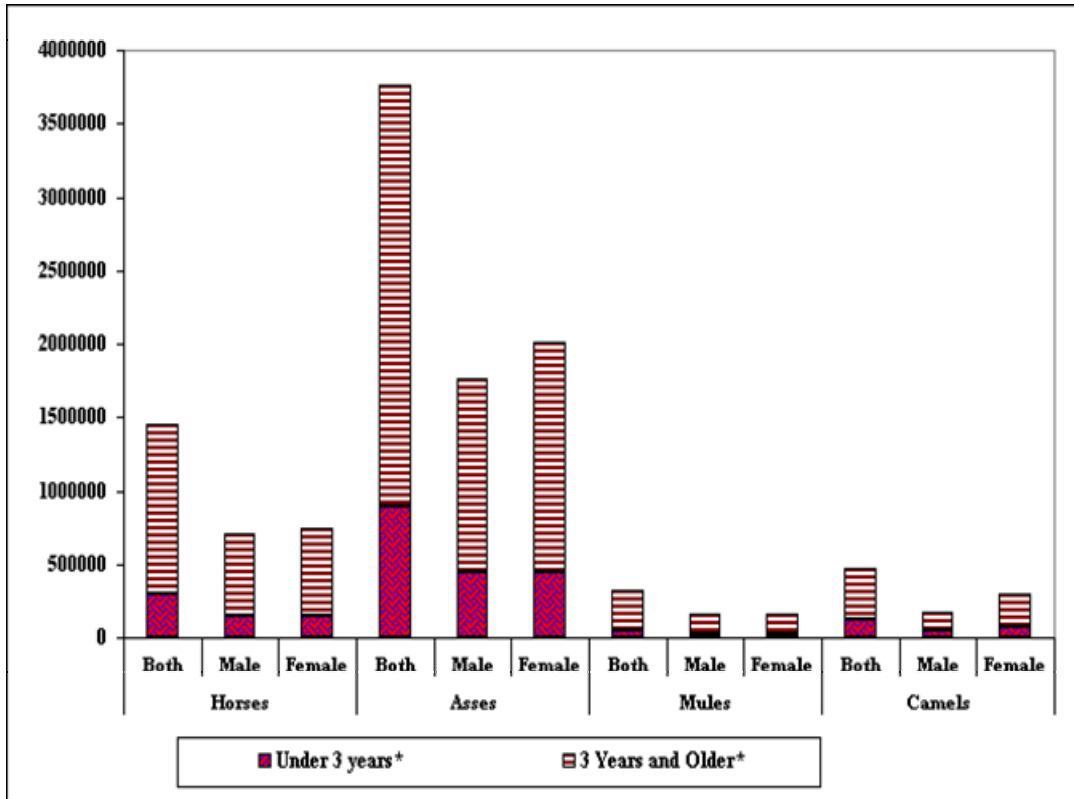
As indicated in the same table, asses are the overwhelming majority in the country compared with the other draught animals. Out of the total ass population in the country, 53.27 percent are females and the remaining 46.73 percent are males. With respect to age distribution, the majorities of the horses, asses and mules are of the age group 3 years and older. Furthermore, 72.43 percent of the camels are of the age group 4 years and older.

The estimates of these animals by sex and purpose are also given in Summary Table III.3. As indicated in this table, among the horses aged 3 years and older, 973,297 (84.74 percent) were for transportation, 161,132 (14.03 percent) were for draught, and the remaining 14,187 (1.24 percent) were for other purposes. With regard to asses, about 68.26 percent were for transportation whereas about 25.73 percent of them were for draught purposes and only six percent of them were for other purposes.

SUMMARY TABLE III.3: Estimated Number of Horses, Asses, Mules, and Camels by Sex, Age, and Purpose for The Country

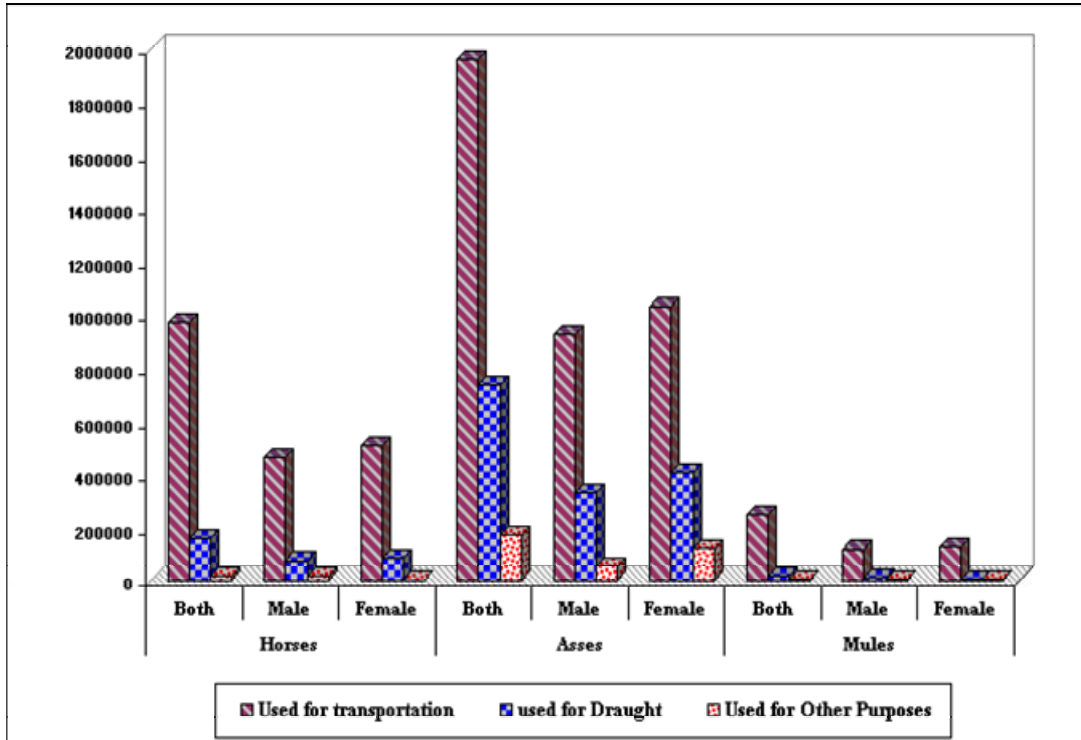
| Age, Breed, and Purpose | Total | | Male | | Female | |
|--|-----------|-------|-----------|-------|-----------|-------|
| | Number | % | Number | % | Number | % |
| Total Horses | 1,447,274 | 100 | 702,743 | 48.56 | 744,531 | 51.44 |
| Under 3 Years | 298,658 | 20.64 | 148,870 | 10.29 | 149,788 | 10.35 |
| 3 years and older | 1,148,616 | 79.36 | 553,873 | 38.27 | 594,743 | 41.09 |
| Horses Aged 3 Years and Older by Purpose | | | | | | |
| All Uses | 1,148,616 | 100 | 553,873 | 48.22 | 594,743 | 51.78 |
| Transportation | 973,297 | 84.74 | 463,621 | 40.36 | 509,675 | 44.37 |
| Draught | 161,132 | 14.03 | 76,064 | 6.62 | 85,068 | 7.41 |
| Other Uses | 14,187 | 1.24 | 14,187 | 1.24 | - | - |
| Total Asses | 3,769,871 | 100 | 1,761,793 | 46.73 | 2,008,079 | 53.27 |
| Under 3 Years | 899,334 | 23.86 | 450,726 | 11.96 | 448,608 | 11.9 |
| 3 years and older | 2,870,537 | 76.14 | 1,311,066 | 34.78 | 1,559,471 | 41.37 |
| Asses Aged 3 Years and Older by Purpose | | | | | | |
| All Uses | 2,870,537 | 100 | 1,311,066 | 45.67 | 1,559,471 | 54.33 |
| Transportation | 1,959,429 | 68.26 | 927,786 | 32.32 | 1,031,643 | 35.94 |
| Draught | 738,508 | 25.73 | 331,844 | 11.56 | 406,664 | 14.17 |
| Other Uses | 172,600 | 6.01 | 51,436 | 1.79 | 121,164 | 4.22 |
| Total Mules | 321,339 | 100 | 156,582 | 48.73 | 164,757 | 51.27 |
| Under 3 Years | 49,879 | 15.52 | 22,289 | 6.94 | 27,589 | 8.59 |
| 3 years and older | 271,461 | 84.48 | 134,293 | 41.79 | 137,168 | 42.69 |
| Mules Aged 3 Years and Older by Purpose | | | | | | |
| All Uses | 271,461 | 100 | 134,293 | 49.47 | 137,168 | 50.53 |
| Transportation | 249,754 | 92 | 120,804 | 44.5 | 128,950 | 47.5 |
| Draught | 16,055 | 5.91 | 10,552 | 3.89 | 5,503 | 2.03 |
| Other Uses | 5,653 | 2.08 | 2,937 | 1.08 | 2,716 | 1 |
| Total Camels | 471,145 | 100 | 176,919 | 37.55 | 294,226 | 62.45 |
| Under 4 Years | 129,881 | 27.57 | 53,855 | 11.43 | 76,026 | 16.14 |
| 4 years and older | 341,263 | 72.43 | 123,064 | 26.12 | 218,200 | 46.31 |
| Camels Aged 4 Years and Older by Purpose | | | | | | |
| All Uses | 341,263 | 100 | 123,064 | 36.06 | 218,200 | 63.94 |
| Meat | 6,604 | 1.94 | 4,050 | 1.19 | 2,554 | 0.75 |
| Milk | 158,213 | 46.36 | | | 158,213 | 46.36 |
| Transportation | 111,957 | 32.81 | 94,902 | 27.81 | 17,055 | 5 |
| Draught | 4,926 | 1.44 | 3,336 | 0.98 | 1,590 | 0.47 |
| Other Uses | 59,563 | 17.45 | 20,776 | 6.09 | 38,788 | 11.37 |

FIGURE III.6 DISTRIBUTION OF HORSES, ASSES, MULES, AND CAMELS BY AGE AND SEX



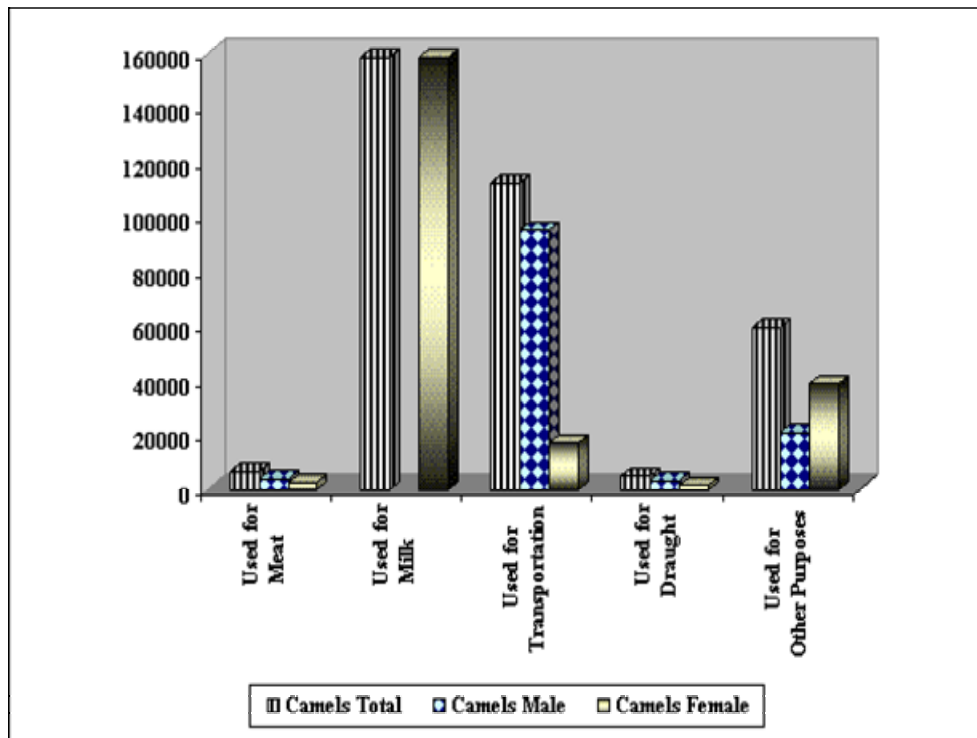
* Note that for camels the age Categories are under 4 years and 4 years & older

FIGURE III.7 DISTRIBUTION OF HORSES, ASSES, AND MULES BY PURPOSE AND SEX



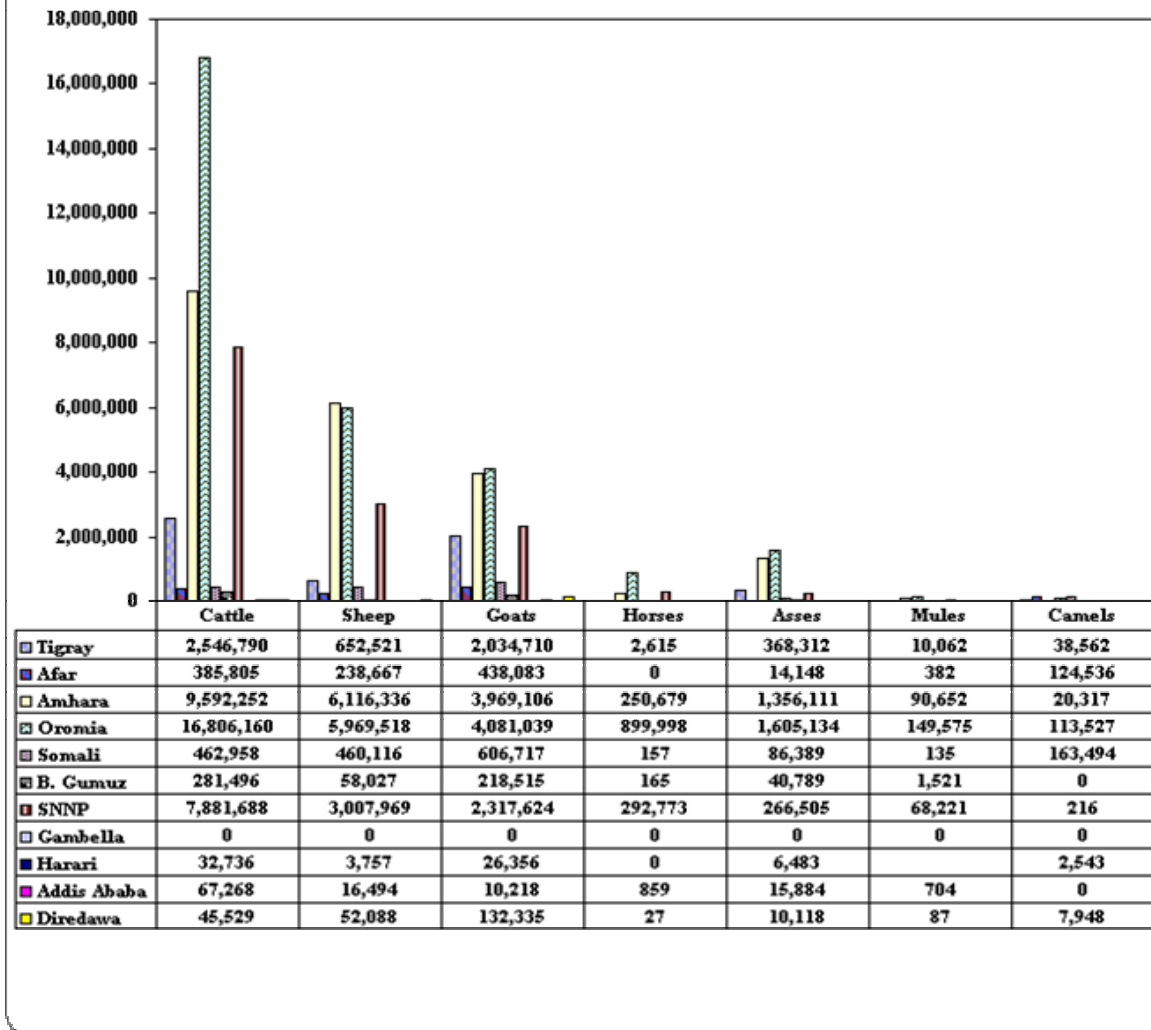
Considering the purpose of the mules, the data shows that 92 percent of them were used for transportation and the others 5.91 percent and 2.08 percent were for draught and other purposes, respectively. The survey result also indicates that 46.36 percent of the camels reported were kept for milk, 32.81 percent were for transportation, and only 1.44 were for draught purposes. On the other hand, the camels kept for meat are about 6,604 heads (See also Figures III.6 to III.8).

FIGURE III.8 DISTRIBUTION OF CAMELS BY PURPOSE AND SEX



Regarding the regional distribution of these draught animals, Oromia and Amhara Regions together make up about 78.55 percent of the total ass population in the country, and the remaining 21.45 percent are found in the other regions. On the other hand, more than half of the horse population and about 47 percent of the mules are found in Oromia Region. SNNP and Amhara Regions also contributed about 20.2 percent and 28.2 percent to the horse and mule populations of the country, respectively. With reference to camel population, Somali and Afar Regions jointly took the greater share that is more than 60 percent of the total camels in the sedentary areas of the country (See Figure III.9).

FIGURE III.9 DISTRIBUTION OF LIVESTOCK BY REGION



Remark: Gambella Region was not covered due to security reasons.

3.1.4 Poultry Population

Data on poultry population are collected as part of the livestock survey, and the total poultry population at country level is estimated to be about 36 million. In this report, poultry includes cocks, cockerels, pullets, laying hens, non-laying hens and chicks. Consequently, as shown in Summary Table III.4 and Figure III.10, most of the poultry are chicks (15,959,783), followed by laying hens (9,605,331). Pullets are estimated to be

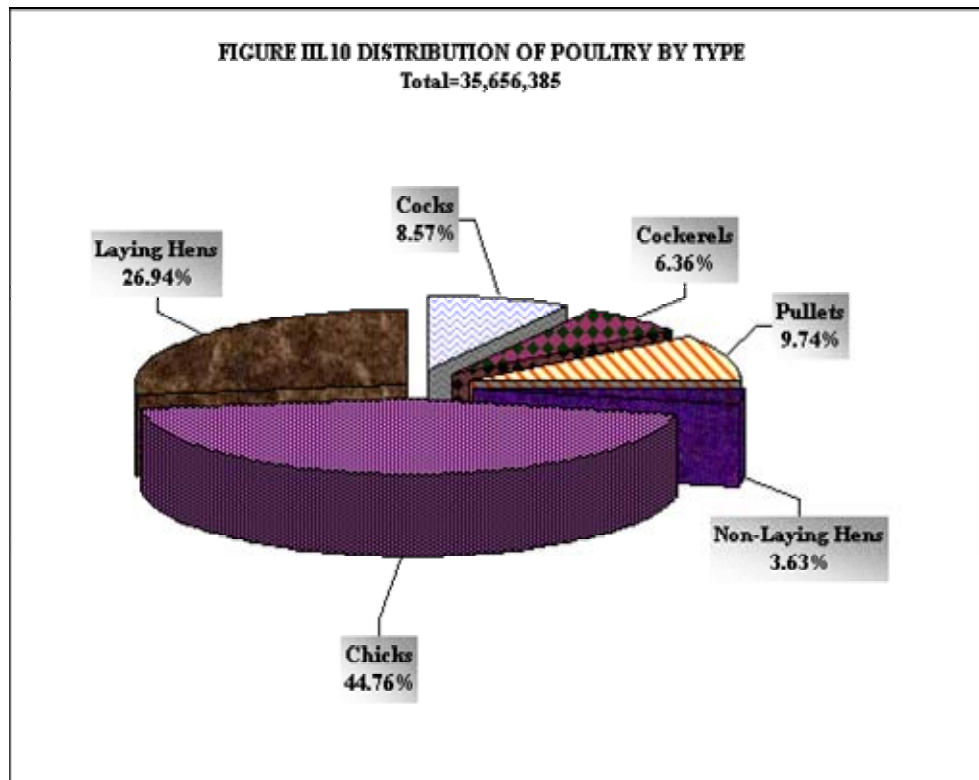
3,473,259 in the country. Cocks and cockerels are also estimated separately, and are 3,054,730 and 2,268,705, respectively. The others are non-laying hens that make up about 3.63 percent (1,294,577) of the total poultry population in the country.

Moreover, average egg-laying period per hen and average number of eggs laid per hen during this period are estimated based on the data collected. Consequently, the average number egg laying periods per hen per annum is about *five*. The average length of a single egg-laying period per hen is estimated to be about 20 days while average number of eggs laid per hen per egg- laying period is about 12 eggs in the country.

Pertaining to regional distribution, Oromia and Amhara Regions together reported about two-thirds of the total poultry (67.3 percent). S.N.N.P. and Tigray Regions also contributed about 29.46 percent jointly to the country’s poultry population while the others reported between 0.09 percent and 0.49 percent (See Table 3-1).

SUMMARY TABLE III.4: Estimated Number of Poultry by Type for The Countrys

| Type of Poultry | Number | % |
|-----------------------|------------|-------|
| All Poultry | 35,656,385 | 100 |
| Cocks | 3,054,730 | 8.57 |
| Cockerels | 2,268,705 | 6.36 |
| Pullets | 3,473,259 | 9.74 |
| Non-Laying Hens | 1,294,577 | 3.63 |
| Chicks | 15,959,783 | 44.76 |
| Laying Hens..... | 9,605,331 | 26.94 |



3.1.5 Beehive Population

Information on beehives was also collected during the livestock survey. As stated by the Ministry of Agriculture, there are three types of beehives, and these are traditional, intermediate, and modern.

Traditional [Fixed comb] Hive is a hollow structure made of cheap materials like clay, straw, bamboo, false banana leaves, logs, barks of tree, and animal dung. The bees fill all the available space with honeycombs from the top to down wards. The honeycombs cannot be removed since they are attached to the top and the sides of the hive. The honey can be removed only by removing one wall of the hive and breaking or cutting out the honeycomb (Reihard Fichtl and Admasu, 1994; Gezahegn Taddesse, 1993 E.C.).

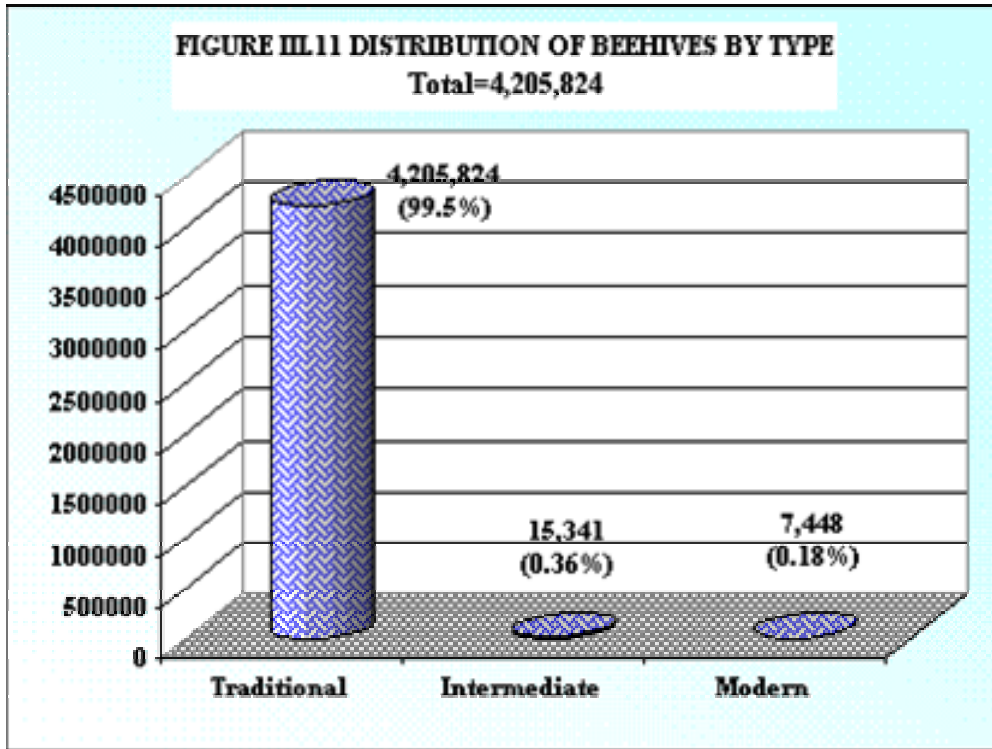
Intermediate [Transitional] Hive is a long trough-shaped box with sloping sidewalls covered with bars of a fixed width. The hive consists of a bottom board, two sidewalls and front and back walls. One opening is made in the front wall to serve as flight entrance. The cover of the hive can be made from any material, which gives adequate protection against light, sun, and rain (Gezahegn Tadesse, 1993 E.C.; P.Seegeren et al, 1996).

Modern Hive [Hive with Frames] is a brood (offspring) chamber (box) with a fixed bottom board and flight board. In the bottom board there is a ventilation hole of size (15cmx30cm), which can be covered with fine wire mesh or other suitable material. The brood chamber holds ten frames, which are kept separately at the right distance by means of side bar, or nails. Queen excluder (not necessary) placed horizontally on top of the brood chamber (Gezahegn Tadesse, 1993 E.C.; P.Seegeren et al, 1996).

Any type of the above beehives was enumerated if it produced honey at least once during the reference period (February 9, 2003 to February 9, 2004). Accordingly, the result of the survey revealed that a total of about 4.23 million hives is estimated to be found in the rural sedentary areas of the country. From this total hives, 99.46 percent are traditional, 15,341 (0.36 percent) are intermediate, and the remaining 7,448 (0.18 percent) are modern hives.

SUMMARY TABLE III.5: Estimated Number of Beehives by Type for The Country

| Type of Beehive | Number | % |
|----------------------------|-----------|-------|
| All Beehives..... | 4,228,612 | 100 |
| Traditional Beehives..... | 4,205,824 | 99.46 |
| Intermediate Beehives..... | 15,341 | 0.36 |
| Modern Beehives..... | 7,448 | 0.18 |



With regard to regional distribution of hives, Oromia Region reported more than half of the total hives. S.N.N.P. and Amhara Regions also contributed significant portions to the hive population of the country that is about 38 percent on aggregate. Tigray Region as well reported about 4.11 percent of the total hives in the country (See Table 3-1).

3.2 LIVESTOCK PRODUCTS

This section summarizes results on livestock products at country level. The various animal products include milk and milk products, eggs, wool, meat, hides and skins. Although data on such livestock products are not easily obtainable in the Ethiopian traditional agricultural sector, an endeavor was made to collect data on milk and honey productions. The data were collected subjectively from the holders in the sampled households and the results obtained are briefly discussed below.

3.2.1 Milk Production

Estimation of milk production entails three components, namely number of milking cows, number of months milking cows actually milked within the reference period and average milk production per cow per day. Hence, data on these components have been collected and the total milk production in the sedentary areas of the country is estimated by multiplying these three components. However, two basic concepts about milk production should be mentioned here. “Gross production”, which includes whole fresh milk actually milked and milk sucked by young animals and also milk fed to other animals. “Net production” consists of whole milk actually milked and milk fed to other animals but excludes milk sucked by young animals. Therefore, in the case of this survey, milk production is estimated based on the concept of “net production”, and as indicated in Summary Table III.6, the estimate of total cow milk production for the rural areas at country level during the reference period, is about 2.4 billion liters. On the other hand, the estimate of camel milk for the sedentary areas of the country is about 217 million liters.

Data on lactation period and average milk yield per cow per day were also collected. As a result, the average lactation period per cow at country level is estimated to be about seven months, and average milk yield per cow per day is about 1.324 liters. With regard to camel, the average lactation period is about 10 months whereas the average daily milk yield is about 4.182 liters in the sedentary areas of the country.

3.2.2 Honey Production

To estimate honey production, number of hives, frequency of honey production and honey production per harvest are required. Therefore, these data were collected from the holders within sampled households both in the rural areas of the country. As a result, the estimate of total honey production is about 25 million kilograms of which the greater portion (99.57 percent) is harvested from traditional hives (See Summary Table III.6).

As can be seen from the survey data, honey was harvested only once from traditional and intermediate hives during the 12 months period (i.e. the reference period) while twice from a modern hive in rural sedentary areas of the country.

3.2.3 Egg Production

To estimate egg production, the average number egg laying periods per hen per annum, length of a single egg-laying period per hen, and average number of eggs laid per hen per egg-laying period are required. Therefore, these data were collected from the livestock holders within sampled livestock owned households. As a result, the estimate of total number of eggs produced during the year is about 63.5 million.

SUMMARY TABLE III.6: Milk, Honey, And Egg Production for The Country

| Item | Quantity Produced and Frequency |
|---|---------------------------------|
| Milk Production | |
| Cow Milk | |
| Average Daily Milk Production (Liters/Cow)..... | 1.324 |
| Average Lactation Period (Months) | 7 |
| Total Milk Production (Liters)..... | 2,431,148,647 |
| Camel Milk | |
| Average Daily Milk Production (Liters/Camel)... | 4.182 |
| Average Lactation Period (Months) | 10 |
| Total Milk Production (Liters)..... | 217,494,663 |
| Honey Production | |
| All Types of Beehives | |
| Production (Kilograms) | 25,186,378 |
| Average Frequency (Harvests/Year) | 1 |
| Traditional Beehives | |
| Production (Kilograms) | 25,078,551 |
| Average Frequency (Harvests/Year) | 1 |
| Intermediate Beehives | |
| Production (Kilograms) | * |
| Average Frequency (Harvests/Year) | 1 |
| Modern Beehives | |
| Production (Kilograms) | 107,827 |
| Average Frequency (Harvests/Year) | 2 |
| Egg Production | |
| Average Number of Clutches/Annum | 5 |
| Average Number Days/Clutch | 20 |
| Average Number of Eggs/Hen/Clutch | 12 |
| Total Egg Production (Number) | 63,523,379 |

3.3 LIVESTOCK VACCINATION, DISEASE, TREATMENT, AND DEATH

Diseases have numerous negative impacts on productivity of herds i.e. death of animals, loss of weights, slow down growth, poor fertility performance, decrease in physical power and the likes. There have been many ways of fighting against diseases and among these, vaccinations (preventive measures) and treatments (curative measures) are the major ones. However, no efficient fight against disease or disease prevention is possible if descriptive data on prevalence of diseases, deaths, vaccinations, and treatments are not available. The availability of these data is also very important to set-up strategies that can assist in preventing and controlling diseases, by and large in improving veterinary services of the country. Hence, it was considered desirable to collect information on vaccinations, treatments, diseases, and deaths of animals during the survey.

SUMMARY TABLE III.8: Estimated Number of Livestock Vaccinated, Afflicted, Treated, and Died in The Country

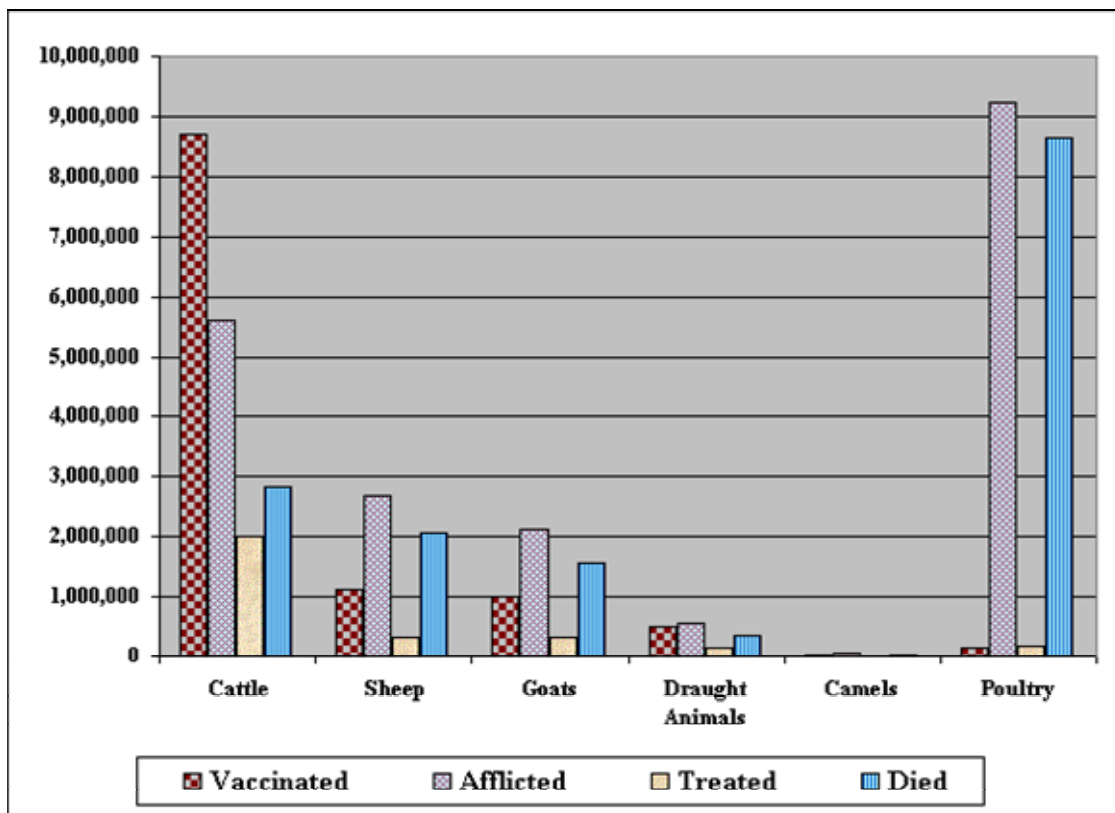
| Item | Number | % |
|-------------------------------|------------|-------|
| Total Vaccinated..... | 11,489,798 | 100 |
| Cattle..... | 8,694,197 | 75.67 |
| Sheep..... | 1,133,056 | 9.86 |
| Goats..... | 989,759 | 8.61 |
| Horses, Asses, and Mules..... | 493,498 | 4.3 |
| Camels..... | 38,005 | 0.33 |
| Poultry..... | 141,284 | 1.23 |
| Total Afflicted..... | 20,234,130 | 100 |
| Cattle..... | 5,592,656 | 27.64 |
| Sheep..... | 2,671,938 | 13.21 |
| Goats..... | 2,117,792 | 10.47 |
| Horses, Asses, and Mules..... | 558,748 | 2.76 |
| Camels..... | 53,877 | 0.27 |
| Poultry..... | 9,239,119 | 45.66 |
| Total Treated..... | 2,999,413 | 100 |
| Cattle..... | 2,014,274 | 67.16 |
| Sheep..... | 322,280 | 10.74 |
| Goats..... | 328,991 | 10.97 |
| Horses, Asses, and Mules..... | 146,688 | 4.89 |
| Camels..... | 8,061 | 0.27 |
| Poultry..... | 179,118 | 5.97 |
| Total Died..... | 15,477,879 | 100 |
| Cattle..... | 2,840,323 | 18.35 |
| Sheep..... | 2,058,296 | 13.3 |
| Goats..... | 1,552,485 | 10.03 |
| Horses, Asses, and Mules..... | 345,953 | 2.24 |
| Camels..... | 35,119 | 0.23 |
| Poultry..... | 8,645,703 | 55.86 |

Data on these parameters specifically on number of vaccinated, afflicted, treated and dead animals were therefore collected and the results are shown in Summary Table III.8. The

estimated number of vaccinated animals within the reference period in the rural areas of the country is about 11 million. Out of these animals, about 75.67 percent were cattle followed by sheep, which took about 9.86 percent share. Goats, and draught animals (horses, asses, and mules) also accounted for about 8.61 percent, and 4.3 percent of the total vaccinated animals, respectively. The estimated number of vaccinated camels in the country is about 38,005, which is only 0.33 percent of the total vaccinated animals.

In the same table, it is indicated that about 20 million animals were diseased/afflicted by different types of diseases during the reference period and only 2.99 million of them were treated. The cattle constituted about 67.16 percent of the total treated animals in the country and substantial numbers of goats and sheep were treated as well (328,991 and 322,280 heads, respectively).

FIGURE III.12 DISTRIBUTION OF ANIMALS VACCINATED, AFFLICTED, TREATED AND DIED BY TYPE



According to the survey data, greater number of animals died during the reference period in the country due to various diseases of which the majority (55.86 percent) was poultry. In addition, the estimated numbers of cattle, sheep, and goats died in the country were about 2.84 million; 2.05 million; and 1.55 heads, respectively. The number of draught animals estimated dead was also considerable that is about 345,953 heads (See Summary Table III.8).

If we take a look at the regional results to see the distributions in the country, nearly two-thirds of the total vaccinated-animals are reported in Oromia and Amhara Regions, and the other regions reported the remaining one-third. Regarding diseased animals, the majorities are accounted for Oromia Region followed by Amhara Region (44.04 percent and 25.02 percent, in that order). Similar distribution patterns are observed for dead animals and treated animals as well (See Statistical Tables 3.21-3.24).

3.4 ANIMAL FEED

Data on animal feed practices of holders in the rural sedentary areas of the country were gathered to assess the feed utilization experience. For the purpose of this report, animal feeds are classified as green fodder (grazing), crop residue, improved feed, hay, industrial by-products, and other feeds. *Green fodder* is simply pasture grasses; *crop residue* includes harvested by-products (straw and chaff of cereals and pulses, etc.); *improved feed* is like alfalfa; *hay* includes any type of grass, clover etc. cut and dried as fodder; and finally industrial *by-products* are like oil cake (rapeseed cake, nueg cake, sunflower cake, etc.), bran, and brewery residue.

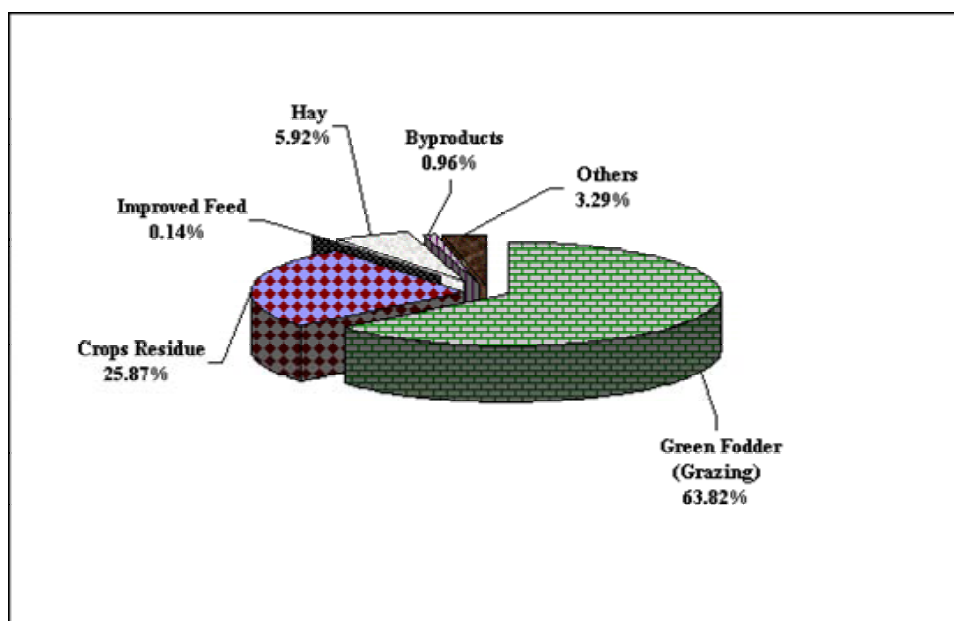
According to the information collected on feed usage experience of holders in the rural areas of the country, green fodder (grazing) is the major type of feed (about 63.83 percent) followed by crops residue that is 25.87 percent. Hay and by-products were also used as animal feed in the country that comprise about 5.92 and 0.96 percent of the total feed, respectively. Moreover, as shown in Summary Table III.9 and Figure III.13, very small

amount of improved feed (only 0.14 percent) was used as animal feed and other types of feed that accounted for about 3.29 percent were also used in the country.

SUMMARY TABLE III.9: Animal Feed Practices for The Country

| Item | Number Reporting | Percentage That Use: |
|---------------------------|------------------|----------------------|
| Total | | 100 |
| Green Fodder/Grazing..... | 9,523,678 | 63.83 |
| Crops Residue..... | 7,842,032 | 25.87 |
| Improved Feed..... | 63,491 | 0.14 |
| Hay..... | 2,646,808 | 5.92 |
| By-products | 876,525 | 0.96 |
| Others | 2,516,827 | 3.29 |

FIGURE III.13 ANIMAL FEED PRACTICES OF HOLDERS



Summary Table III.9 also highlights the number of holders reported each type of feed. According to the data, about 9.5 million holders have used green fodder to feed their animals. Significant number of holders (about 7.8 million) in the rural areas of the country also reported that they used to feed crops residue for their animals. Moreover, about 2.6 million, and 0.88 million holders have reported to use hay and by-products, respectively. Quite a number of holders (about 2.5 million) as well reported using other types of feeds while only 63,491 (0.14 percent) holders reported to use the improved feed.

**STATISTICAL TABLES PRESENTING
RESULTS AT
ZONE AND REGIONAL LEVEL**

TABLES 3.1–3.26

TABLE 3-1: NUMBER OF LIVESTOCK BY TYPE OF ANIMAL, ZONE, AND REGION

| Geographic Area | ALL LIVESTOCK | | | | | | | | |
|-------------------|---------------|------------|------------|-----------|-----------|---------|---------|------------|-----------|
| | CATTLE | SHEEP | GOATS | HORSES | ASSES | MULES | CAMELS | POULTRY | BEEHIVES |
| Ethiopia | 38,102,682 | 16,575,493 | 13,834,703 | 1,447,274 | 3,769,871 | 321,339 | 471,145 | 35,656,385 | 4,228,612 |
| Tigray | 2,546,790 | 652,521 | 2,034,710 | 2,615 | 368,312 | 10,062 | 38,562 | 3,725,111 | 173,948 |
| North West Tigray | 691,608 | 47,869 | 682,642 | - | 67,522 | 1,218 | 3,328 | 951,892 | 31,729 |
| Central Tigray | 614,861 | 137,969 | 786,190 | - | 96,418 | 2,311 | 6,676 | 1,170,285 | 45,608 |
| Eastern Tigray | 284,386 | 309,223 | 144,445 | * | 63,977 | 2,035 | - | 411,602 | 40,271 |
| Southern Tigray | 574,215 | 128,557 | 251,078 | 1,788 | 110,224 | 3,625 | 26,143 | 656,997 | 39,607 |
| Western Tigray | 381,721 | 28,903 | 170,356 | * | 30,171 | 872 | 1,929 | 534,335 | 16,733 |
| Afar | 385,805 | 238,667 | 438,083 | - | 14,148 | 382 | 124,536 | 49,285 | 674 |
| Zone 1 | 126,374 | 67,581 | 115,851 | - | 2,418 | - | 15,587 | 1,343 | - |
| Zone 3 | 259,431 | 171,086 | 322,232 | - | 11,730 | 382 | 108,949 | 47,942 | 674 |
| Amhara | 9,592,252 | 6,116,336 | 3,969,106 | 250,679 | 1,356,111 | 90,652 | 20,317 | 11,243,773 | 766,383 |
| North Gonder | 1,547,651 | 487,561 | 791,826 | 39,016 | 179,158 | 10,956 | - | 2,497,880 | 109,015 |
| South Gonder | 1,118,652 | 496,970 | 421,895 | 22,278 | 148,431 | 14,929 | - | 1,257,047 | 107,000 |
| North Wolo | 822,188 | 638,067 | 550,433 | 16,724 | 142,177 | 10,868 | - | 1,102,246 | 61,997 |
| South Wolo | 1,426,158 | 1,661,367 | 799,454 | 27,783 | 267,280 | 21,761 | - | 1,835,430 | 109,366 |
| North Shewa | 972,172 | 1,155,696 | 537,105 | 29,674 | 224,749 | 10,580 | - | 1,241,219 | 47,845 |
| East Gojam | 1,150,217 | 854,352 | 163,133 | 56,529 | 152,471 | 6,338 | - | 680,805 | 60,279 |
| West Gojam | 1,406,586 | 453,949 | 189,759 | 7,956 | 142,636 | 9,741 | - | 1,554,778 | 149,011 |
| Waghamera | 234,682 | 51,587 | 271,727 | * | 36,688 | 2,371 | - | 210,172 | 39,535 |
| Agewawie | 607,051 | 292,642 | 104,976 | 50,520 | 33,577 | 3,015 | - | 580,755 | 70,788 |
| Oromia | 306,895 | 24,143 | 138,798 | - | 28,944 | * | 9,205 | 283,441 | 11,548 |
| Oromia | 16,806,160 | 5,969,518 | 4,081,039 | 899,998 | 1,605,134 | 149,575 | 113,527 | 12,761,341 | 2,289,877 |
| West Wellega | 993,996 | 207,081 | 74,458 | * | 84,685 | 8,121 | - | 1,355,853 | 593,766 |
| East Welega | 1,279,640 | 308,188 | 153,038 | 35,968 | 93,948 | 10,593 | - | 991,945 | 190,373 |
| Illubabor | 736,599 | 287,655 | 83,951 | 33,285 | 9,718 | 5,440 | - | 823,774 | 551,474 |
| Jimma | 1,805,856 | 678,820 | 232,125 | 109,307 | 46,559 | 34,069 | - | 1,545,644 | 360,914 |
| West Shewa | 1,492,408 | 664,207 | 153,087 | 128,009 | 90,378 | 5,430 | - | 962,426 | 61,765 |
| North Shewa | 1,146,266 | 829,306 | 104,112 | 70,944 | 140,168 | 5,692 | - | 622,974 | 34,852 |
| East Shewa | 1,187,320 | 250,456 | 445,803 | 14,609 | 247,430 | 5,898 | - | 1,239,484 | 32,029 |
| Arsi | 2,205,631 | 1,239,594 | 288,098 | 221,516 | 253,606 | 26,520 | - | 1,308,172 | 77,046 |
| West Harerghe | 756,426 | 122,142 | 502,589 | * | 140,150 | 3,549 | 24,282 | 929,057 | 42,244 |
| East Harerghe | 927,849 | 210,549 | 647,955 | * | 149,545 | * | - | 1,001,395 | 47,467 |
| Bale | 1,765,230 | 631,007 | 472,863 | 158,830 | 165,237 | 15,804 | - | 532,256 | 109,414 |
| Borena | 987,814 | 161,880 | 584,729 | 4,532 | 44,151 | 4,386 | 37,805 | 412,825 | 36,245 |
| South West Shewa | 661,697 | 133,509 | 121,776 | 17,982 | 92,321 | 8,515 | - | 514,731 | 28,277 |
| Guji | 859,428 | 245,124 | 216,453 | 99,404 | 47,238 | 14,872 | - | 520,804 | 124,010 |

TABLE 3-1 CONT'D

| Geographic Area | ALL LIVESTOCK | | | | | | | | |
|-------------------------|---------------|-----------|-----------|---------|---------|--------|---------|-----------|----------|
| | CATTLE | SHEEP | GOATS | HORSES | ASSES | MULES | CAMELS | POULTRY | BEEHIVES |
| Somale | 462,958 | 460,116 | 606,717 | * | 86,389 | * | 163,494 | 173,187 | 9,186 |
| Shinele | 17,146 | 42,463 | 84,949 | - | 3,565 | - | 6,767 | 6,625 | 29 |
| Jijiga | 289,939 | 282,051 | 274,491 | - | 61,222 | - | 30,676 | 117,387 | 9,157 |
| Liben | 155,873 | 135,602 | 247,277 | * | 21,601 | * | 126,051 | 49,176 | - |
| Benshangul-Gumuz | 281,496 | 58,027 | 218,515 | * | 40,789 | 1,521 | - | 785,357 | 156,409 |
| Metekel | 181,039 | 32,384 | 89,579 | * | 18,356 | 1,304 | - | 310,417 | 95,353 |
| Asosa | 66,100 | 12,697 | 94,199 | - | 18,486 | * | - | 347,656 | 50,432 |
| Kemeshi | 34,357 | 12,946 | 34,737 | - | 3,948 | 147 | - | 127,284 | 10,624 |
| S.N.N.P.R | 7,881,688 | 3,007,969 | 2,317,624 | 292,773 | 266,505 | 68,221 | - | 6,779,900 | 829,795 |
| Gurage | 893,060 | 241,086 | 115,767 | 53,550 | 39,814 | 6,796 | - | 529,856 | 28,161 |
| Hadiya | 670,527 | 202,869 | 133,425 | 24,108 | 40,029 | 13,031 | - | 940,491 | 39,810 |
| Kembata Tembaro | 290,637 | 95,010 | 36,042 | 8,309 | 20,862 | 2,259 | - | 305,863 | 18,514 |
| Sidama | 1,411,920 | 315,089 | 175,321 | 61,832 | 41,332 | * | - | 1,012,428 | 35,164 |
| Gedio | 92,202 | 105,712 | 9,157 | 20,965 | * | 3,355 | - | 208,479 | 30,937 |
| Wolayita | 695,489 | 122,653 | 119,539 | * | 25,785 | 3,136 | - | 653,380 | 27,844 |
| South Omo | 681,454 | 486,963 | 900,132 | 9,800 | 6,988 | 2,922 | - | 303,706 | 89,403 |
| Shaka | 75,324 | 41,033 | 8,087 | 2,702 | 942 | * | - | 133,058 | 84,141 |
| Kaffa | 560,122 | 319,369 | 87,847 | 44,747 | * | 8,349 | - | 591,667 | 267,360 |
| Gamo Gofa | 910,216 | 473,939 | 224,314 | 24,166 | 10,831 | 7,887 | - | 446,640 | 70,106 |
| Bench-Maji | 364,466 | 148,821 | 48,407 | 11,903 | * | 2,156 | - | 465,486 | 26,667 |
| Yem Sp. Wereda | 48,701 | 18,240 | 17,340 | 551 | 2,138 | 161 | - | 30,521 | 5,281 |
| Amaro Sp. Wereda | 83,371 | 50,091 | 39,738 | 3,100 | 396 | 1,058 | - | 58,137 | 4,046 |
| Burji Sp. Wereda | 33,434 | 1,975 | 21,507 | * | 2,998 | 92 | - | 19,790 | 1,938 |
| Konso Sp. Wereda | 84,142 | 68,468 | 116,310 | - | 2,102 | - | - | 87,141 | 15,293 |
| Dirashe Sp. Wereda | 67,797 | 10,190 | 52,133 | * | 7,219 | * | - | 73,305 | 6,842 |
| Dawro | 296,086 | 76,207 | 39,033 | 5,974 | 3,062 | 4,273 | - | 138,172 | 46,351 |
| Basketo Sp. Wereda | 21,854 | 9,241 | 3,270 | 354 | * | 399 | - | 27,274 | 2,176 |
| Konta Sp. Wereda | 55,516 | 13,576 | 7,144 | 1,138 | - | 778 | - | 54,263 | 9,317 |
| Konta Special | 437,503 | 182,228 | 122,610 | 17,624 | 44,282 | 6,382 | - | 578,657 | 17,206 |
| Alaba Special | 107,868 | 25,211 | 40,501 | 1,273 | 15,523 | 701 | - | 121,585 | 3,239 |
| Harari | 32,736 | 3,757 | 26,356 | - | 6,483 | - | - | 31,590 | 977 |
| Hundene | 32,736 | 3,757 | 26,356 | - | 6,483 | - | - | 31,590 | 977 |
| Addis Ababa | 67,268 | 16,494 | 10,218 | 859 | 15,884 | 704 | - | 62,364 | 692 |
| Zone 3 | 47,673 | 11,172 | 7,588 | 685 | 10,416 | 297 | - | 40,031 | 354 |
| Zone 6 | 19,595 | 5,322 | * | 174 | 5,468 | 407 | - | 22,333 | 338 |
| Dire Dawa | 45,529 | 52,088 | 132,335 | * | 10,118 | * | 7,948 | 44,479 | 670 |

TABLE 3-2: NUMBER OF CATTLE BY AGE AND SEX OF ANIMAL, ZONE, ZONE, AND REGION

| Geographic Area | CATTLE | | | | | | | | | | |
|-------------------|---------------|------------|------------|--------------|-------------|---------------|------------|------------|--------------|-------------|---------------|
| | ALL CATTLE | MALE | | | | | FEMALE | | | | |
| | | < 6 Months | 6 Mo < 1yr | 1yr - <3 yrs | 3 - <10 yrs | 10 yrs & Over | < 6 Months | 6 Mo < 1yr | 1yr - <3 yrs | 3 - <10 yrs | 10 yrs & Over |
| Ethiopia | 38,102,682 | 1,786,233 | 1,568,324 | 2,898,690 | 9,988,239 | 618,780 | 1,940,906 | 1,691,778 | 3,618,448 | 13,303,419 | 687,865 |
| Tigray | 2,546,790 | 94,349 | 108,990 | 185,406 | 786,292 | 61,093 | 111,304 | 120,953 | 211,616 | 819,246 | 47,541 |
| North West Tigray | 691,608 | 27,870 | 39,310 | 51,522 | 170,333 | 20,681 | 30,933 | 42,337 | 61,891 | 228,829 | 17,902 |
| Central Tigray | 614,861 | 12,305 | 19,272 | 48,440 | 241,431 | 13,168 | 17,052 | 19,406 | 41,751 | 191,660 | 10,377 |
| Eastern Tigray | 284,386 | 9,552 | 12,436 | 22,489 | 95,221 | 3,179 | 11,453 | 11,279 | 26,887 | 89,606 | 2,283 |
| Southern Tigray | 574,215 | 25,465 | 14,310 | 38,379 | 198,703 | 16,466 | 30,848 | 19,501 | 42,101 | 180,171 | 8,270 |
| Western Tigray | 381,721 | 19,157 | 23,661 | 24,575 | 80,605 | 7,599 | 21,017 | 28,431 | 38,986 | 128,980 | 8,710 |
| Afar | 385,805 | 23,915 | 10,968 | 15,617 | 26,152 | 793 | 46,440 | 28,301 | 52,105 | 173,386 | 8,130 |
| Zone 1 | 126,374 | 7,655 | 2,690 | 4,623 | 7,448 | * | 15,960 | 8,197 | 16,548 | 61,720 | 1,342 |
| Zone 3 | 259,431 | 16,259 | 8,278 | 10,994 | 18,704 | * | 30,480 | 20,103 | 35,557 | 111,666 | 6,788 |
| Amhara | 9,592,252 | 403,140 | 325,904 | 697,799 | 3,177,522 | 298,353 | 424,514 | 340,643 | 774,999 | 2,931,923 | 217,453 |
| North Gonder | 1,547,651 | 59,390 | 65,405 | 121,285 | 444,940 | 55,620 | 62,013 | 58,312 | 122,905 | 512,426 | 45,353 |
| South Gonder | 1,118,652 | 48,113 | 33,718 | 93,600 | 361,510 | 45,536 | 48,074 | 34,680 | 93,347 | 335,235 | 24,838 |
| North Wolo | 822,188 | 36,125 | 30,736 | 68,841 | 273,830 | 2,882 | 43,121 | 35,897 | 63,281 | 262,933 | 4,542 |
| South Wolo | 1,426,158 | 61,232 | 50,891 | 103,027 | 479,580 | 21,488 | 73,471 | 53,593 | 133,704 | 421,295 | 27,878 |
| North Shewa | 972,172 | 35,570 | 27,771 | 70,719 | 392,901 | 29,336 | 35,124 | 30,692 | 80,796 | 253,971 | 15,293 |
| East Gojam | 1,150,217 | 44,813 | 41,318 | 79,444 | 396,587 | 73,913 | 44,845 | 32,724 | 80,877 | 315,818 | 39,878 |
| West Gojam | 1,406,586 | 60,356 | 37,833 | 80,708 | 518,267 | 43,593 | 54,360 | 55,064 | 99,501 | 428,549 | 28,355 |
| Waghamera | 234,682 | 8,572 | 11,051 | 16,388 | 66,692 | 7,458 | 9,279 | 11,850 | 17,607 | 78,086 | 7,700 |
| Agewawie | 607,051 | 29,751 | 18,524 | 42,224 | 163,238 | 15,481 | 34,605 | 17,487 | 54,928 | 213,088 | 17,725 |
| Oromia | 306,895 | 19,218 | 8,657 | 21,564 | 79,977 | 3,048 | 19,622 | 10,344 | 28,053 | 110,521 | 5,890 |
| Oromia | 16,806,160 | 821,520 | 689,355 | 1,349,018 | 4,363,079 | 219,888 | 907,740 | 734,367 | 1,635,033 | 5,813,910 | 272,250 |
| West Wellega | 993,996 | 56,911 | 43,365 | 83,424 | 277,849 | * | 54,353 | 42,897 | 91,231 | 323,742 | 10,805 |
| East Welega | 1,279,640 | 68,723 | 43,971 | 92,399 | 376,207 | 24,373 | 77,257 | 50,078 | 110,602 | 414,859 | 21,173 |
| Illubabor | 736,599 | 43,086 | 28,891 | 66,041 | 195,194 | 6,107 | 46,178 | 29,019 | 68,065 | 247,710 | 6,308 |
| Jimma | 1,805,856 | 77,022 | 72,323 | 163,677 | 511,823 | 4,066 | 87,057 | 78,497 | 177,038 | 618,493 | 15,859 |
| West Shewa | 1,492,408 | 67,043 | 48,650 | 139,976 | 429,901 | 20,534 | 80,045 | 52,967 | 147,655 | 473,249 | 32,389 |
| North Shewa | 1,146,266 | 53,438 | 39,271 | 87,328 | 347,523 | 23,268 | 58,610 | 36,378 | 106,562 | 370,679 | 23,210 |
| East Shewa | 1,187,320 | 53,810 | 46,799 | 80,482 | 344,204 | 32,210 | 57,863 | 52,474 | 99,961 | 404,904 | 14,613 |
| Arsi | 2,205,631 | 89,922 | 74,145 | 163,040 | 663,514 | 40,784 | 98,700 | 86,347 | 215,283 | 740,435 | 33,462 |
| West Harerghe | 756,426 | 35,825 | 40,417 | 57,594 | 189,878 | 6,298 | 44,329 | 37,702 | 89,017 | 240,509 | 14,857 |
| East Harerghe | 927,849 | 46,048 | 49,347 | 98,584 | 147,135 | * | 51,860 | 47,395 | 107,116 | 358,663 | 20,443 |
| Bale | 1,765,230 | 75,548 | 79,657 | 134,127 | 382,822 | 9,870 | 87,076 | 85,806 | 177,751 | 695,522 | 37,052 |
| Borena | 987,814 | 69,629 | 53,013 | 67,859 | 148,222 | * | 79,094 | 67,393 | 100,673 | 368,344 | * |
| South West Shewa | 661,697 | 23,283 | 22,277 | 59,313 | 211,164 | 29,113 | 23,716 | 22,648 | 64,685 | 194,581 | 10,919 |
| Guji | 859,428 | 61,234 | 47,230 | 55,175 | 137,643 | 1,720 | 61,604 | 44,767 | 79,393 | 362,221 | 8,442 |

TABLE 3-2 CONT'D

| Geographic Area | CATTLE | | | | | | | | | | |
|-------------------------|---------------|------------|------------|--------------|-------------|--------------|------------|------------|--------------|-------------|--------------|
| | ALL CATTLE | MALE | | | | | FEMALE | | | | |
| | | < 6 Months | 6 Mo < 1yr | 1yr - <3 yrs | 3 - <10 yrs | 10 yrs &Over | < 6 Months | 6 Mo < 1yr | 1yr - <3 yrs | 3 - <10 yrs | 10 yrs &Over |
| Somale | 462,958 | 25,505 | 22,209 | 28,303 | 77,233 | * | 32,491 | 26,952 | 42,116 | 204,488 | 2,385 |
| Shinele | 17,146 | 814 | 710 | 1,435 | 2,109 | * | 959 | 1,029 | 1,921 | 7,966 | 195 |
| Jijiga | 289,939 | 13,401 | 13,484 | 18,643 | 62,318 | * | 17,446 | 17,012 | 27,587 | 119,766 | * |
| Liben | 155,873 | 11,289 | 8,015 | 8,225 | 12,806 | * | 14,086 | 8,912 | 12,609 | 76,756 | * |
| Benshangul-Gumuz | 281,496 | 12,217 | 12,773 | 21,348 | 75,525 | 2,609 | 14,061 | 15,608 | 23,956 | 100,922 | 2,476 |
| Metekel | 181,039 | 7,298 | 8,628 | 13,705 | 49,330 | 1,979 | 8,761 | 10,283 | 14,250 | 64,951 | 1,854 |
| Asosa | 66,100 | 3,078 | 2,115 | 5,102 | 18,705 | * | 3,215 | 3,610 | 5,919 | 23,740 | * |
| Kemeshi | 34,357 | 1,841 | 2,030 | 2,541 | 7,490 | 435 | 2,085 | 1,715 | 3,787 | 12,232 | * |
| S.N.N.P.R | 7,881,688 | 398,985 | 392,636 | 588,802 | 1,446,209 | 30,985 | 398,090 | 419,039 | 862,750 | 3,208,159 | 136,035 |
| Gurage | 893,060 | 32,342 | 49,907 | 57,912 | 113,836 | 2,523 | 35,596 | 43,692 | 100,994 | 432,233 | 24,026 |
| Hadiya | 670,527 | 26,372 | 28,997 | 54,452 | 167,358 | 3,286 | 26,355 | 33,849 | 58,570 | 262,560 | 8728 |
| Kembata Tembaro | 290,637 | 10,672 | 12,543 | 22,453 | 59,066 | 2,642 | 12,785 | 15,229 | 30,837 | 114,077 | 10,333 |
| Sidama | 1,411,920 | 91,034 | 86,349 | 85,221 | 100,775 | * | 84,265 | 77,398 | 171,057 | 676,467 | 37,964 |
| Gedio | 92,202 | 6,918 | 3,863 | 9,874 | 15,959 | - | 3,607 | 3,491 | 8,923 | 38,485 | 1083 |
| Wolayita | 695,489 | 28,905 | 32,122 | 69,422 | 142,744 | 1,956 | 27,218 | 33,722 | 75,148 | 273,611 | 10642 |
| South Omo | 681,454 | 33,880 | 33,912 | 59,666 | 118,219 | 8,489 | 36,498 | 44,608 | 85,957 | 244,457 | * |
| Shaka | 75,324 | 5,992 | 3,968 | 5,893 | 12,448 | - | 5,689 | 4,385 | 7,165 | 29,068 | 717 |
| Kaffa | 560,122 | 31,370 | 26,072 | 40,127 | 142,891 | 1,675 | 34,762 | 34,817 | 55,938 | 189,246 | 3224 |
| Gamo Gofa | 910,216 | 48,930 | 45,166 | 72,558 | 185,782 | * | 49,022 | 47,366 | 109,853 | 341,241 | 8919 |
| Bench-Maji | 364,466 | 23,495 | 19,136 | 22,350 | 71,169 | * | 20,046 | 25,217 | 36,214 | 146,191 | * |
| Yem Sp. Wereda | 48,701 | 1,963 | 1,506 | 3,355 | 15,609 | 613 | 2,179 | 1,778 | 2,717 | 18,320 | 661 |
| Amaro Sp. Wereda | 83,371 | 4,419 | 3,402 | 5,973 | 18,278 | 363 | 4,389 | 3,427 | 9,577 | 32,233 | 1,310 |
| Burji Sp. Wereda | 33,434 | 997 | 1,092 | 2,070 | 14,175 | 186 | 1,197 | 1,283 | 2,545 | 9,718 | 170 |
| Konso Sp. Wereda | 84,142 | 3,988 | 3,439 | 6,321 | 26,443 | * | 3,511 | 3,579 | 7,209 | 26,657 | 1,729 |
| Dirashe Sp. Wereda | 67,797 | 2,771 | 2,316 | 3,765 | 26,224 | * | 3,141 | 2,615 | 5,188 | 21,542 | * |
| Dawro | 296,086 | 17,723 | 13,167 | 23,416 | 52,024 | 545 | 17,179 | 15,793 | 32,645 | 121,353 | 2,241 |
| Basketo Sp. Wereda | 21,854 | 1,433 | 1,245 | 2,112 | 4,773 | * | 1,273 | 1,018 | 1,931 | 7,760 | 233 |
| Konta Sp. Wereda | 55,516 | 3,729 | 3,006 | 3,477 | 13,393 | * | 3,423 | 2,709 | 6,195 | 19,554 | * |
| Konta Special | 437,503 | 15,599 | 16,317 | 32,591 | 114,845 | 3,540 | 19,352 | 18,385 | 47,825 | 162,052 | 6,997 |
| Alaba Special | 107,868 | 6,451 | 5,110 | 5,796 | 30,199 | 717 | 6,602 | 4,679 | 6,262 | 41,335 | 716 |
| Harari | 32,736 | 2,473 | 1,685 | 2,702 | 5,063 | - | 2,175 | 1,797 | 4,033 | 12,561 | 249 |
| Hundene | 32,736 | 2,473 | 1,685 | 2,702 | 5,063 | - | 2,175 | 1,797 | 4,033 | 12,561 | 249 |
| Addis Ababa | 67,268 | 1,370 | 1,598 | 5,426 | 25,490 | 3,783 | 1,985 | 2,205 | 5,467 | 19,011 | 933 |
| Zone 3 | 47,673 | 809 | 1,347 | 3,987 | 16,800 | 2,308 | 1,458 | 1,770 | 4,157 | 14,384 | 651 |
| Zone 6 | 19,595 | 561 | 250 | 1,439 | 8,690 | 1,475 | 527 | 435 | 1,310 | 4,628 | 281 |
| Dire Dawa | 45,529 | 2,759 | 2,207 | 4,269 | 5,675 | - | 2,107 | 1,914 | 6,372 | 19,813 | 413 |

TABLE 3-3: NUMBER OF SHEEP BY AGE AND SEX OF ANIMAL, ZONE, AND REGION

| Geographic Area | SHEEP | | | | | | | | |
|-------------------|------------|------------|------------|--------------|--------------|------------|------------|--------------|--------------|
| | ALL SHEEP | MALE | | | | FEMALE | | | |
| | | < 6 Months | 6 Mo < 1yr | 1yr - <2 yrs | 2 yrs & Over | < 6 Months | 6 Mo < 1yr | 1yr - <2 yrs | 2 yrs & Over |
| Ethiopia | 16,575,493 | 2,138,852 | 726,512 | 495,247 | 755,868 | 2,281,451 | 1,147,189 | 1,294,073 | 7,736,302 |
| Tigray | 652,521 | 81,451 | 24,771 | 21,345 | 29,377 | 85,100 | 40,011 | 62,702 | 307,764 |
| North West Tigray | 47,869 | 7,581 | 1,467 | 1,413 | 2,690 | 6,313 | 1,595 | 4,258 | 22,552 |
| Central Tigray | 137,969 | 20,133 | 3,649 | 5,897 | 3,303 | 18,123 | 5,512 | 13,877 | 67,476 |
| Eastern Tigray | 309,223 | 36,154 | 11,283 | 6,367 | 14,214 | 35,644 | 22,195 | 25,892 | 157,475 |
| Southern Tigray | 128,557 | 13,593 | 6,435 | 6,781 | 7,246 | 20,693 | 9,333 | 15,651 | 48,824 |
| Western Tigray | 28,903 | * | * | * | * | 4,327 | 1,377 | 3,024 | 11,437 |
| Afar | 238,667 | 19,160 | 11,344 | 7,160 | 16,296 | 33,761 | 24,883 | 28,822 | 97,240 |
| Zone 1 | 67,581 | 6,082 | 2,396 | 1,883 | 3,404 | 9,477 | 6,794 | 8,830 | 28,715 |
| Zone 3 | 171,086 | 13,078 | 8,948 | 5,277 | 12,892 | 24,284 | 18,090 | 19,992 | 68,525 |
| Amhara | 6,116,336 | 739,396 | 221,823 | 178,720 | 328,139 | 811,015 | 384,856 | 410,925 | 3,041,463 |
| North Gonder | 487,561 | 69,896 | 14,114 | 9,878 | 15,436 | 65,428 | 40,251 | 25,876 | 246,683 |
| South Gonder | 496,970 | 67,747 | 17,766 | 12,591 | 7,748 | 66,968 | 32,886 | 22,188 | 269,076 |
| North Wolo | 638,067 | 69,399 | 16,977 | 18,717 | 43,052 | 86,321 | 39,318 | 43,915 | 320,367 |
| South Wolo | 1,661,367 | 187,080 | 61,355 | 58,889 | 125,810 | 205,039 | 82,458 | 110,328 | 830,409 |
| North Shewa | 1,155,696 | 142,365 | 53,040 | 36,419 | 88,396 | 159,193 | 73,150 | 59,218 | 543,916 |
| East Gojam | 854,352 | 99,924 | 21,666 | 16,531 | 19,248 | 119,618 | 64,835 | 89,868 | 422,661 |
| West Gojam | 453,949 | 53,046 | 25,130 | 17,269 | 16,800 | 54,083 | 31,423 | 29,938 | 226,260 |
| Waghamera | 51,587 | 5,764 | 991 | 1,629 | 4,209 | 6,831 | 2,040 | 3,135 | 26,988 |
| Agewawie | 292,642 | 40,214 | 8,118 | 4,999 | 5,199 | 44,444 | 17,874 | 25,773 | 146,022 |
| Oromia | 24,143 | 3,960 | 2,666 | 1,798 | 2,240 | 3,089 | 621 | 687 | 9,081 |
| Oromia | 5,969,518 | 900,158 | 294,096 | 137,474 | 182,913 | 915,248 | 403,348 | 434,905 | 2,701,375 |
| West Wellega | 207,081 | 36,497 | 10,170 | 5,064 | 6,174 | 33,865 | 17,651 | 16,968 | 80,692 |
| East Welega | 308,188 | 47,526 | 14,804 | 7,967 | 9,948 | 47,515 | 22,026 | 32,432 | 125,972 |
| Illubabor | 287,655 | 43,595 | 12,766 | 4,511 | 3,945 | 47,308 | 19,749 | 18,628 | 137,154 |
| Jimma | 678,820 | 87,359 | 33,053 | 18,565 | 16,436 | 98,857 | 46,964 | 45,352 | 332,234 |
| West Shewa | 664,207 | 100,388 | 29,788 | 9,687 | 19,937 | 103,508 | 46,140 | 39,072 | 315,687 |
| North Shewa | 829,306 | 113,795 | 57,654 | * | 27,308 | 134,125 | 42,831 | 39,646 | 393,226 |
| East Shewa | 250,456 | 34,970 | 14,830 | 8,434 | 9,031 | 36,015 | 18,569 | 19,656 | 108,949 |
| Arsi | 1,239,594 | 228,677 | 48,979 | 21,731 | 25,807 | 202,091 | 76,129 | 95,380 | 540,800 |
| West Harerghe | 122,142 | 16,376 | 2,743 | 3,352 | 5,621 | 16,109 | 10,289 | 13,099 | 54,553 |
| East Harerghe | 210,549 | 28,242 | 10,435 | 9,064 | 12,742 | 24,455 | 12,047 | 18,415 | 95,150 |
| Bale | 631,007 | 96,444 | 25,000 | * | 17,166 | 104,934 | 50,757 | 55,771 | 272,404 |
| Borena | 161,880 | 17,029 | 6,528 | 7,989 | 12,041 | 21,358 | 12,040 | 11,679 | 73,217 |
| South West Shewa | 133,509 | 11,555 | 13,968 | 2,239 | 5,835 | 12,637 | 12,925 | 9,350 | 65,000 |
| Guji | 245,124 | 37,705 | 13,378 | 9,619 | 10,924 | 32,471 | 15,231 | 19,457 | 106,338 |

TABLE 3-3 CONT'D

| Geographic Area | SHEEP | | | | | | | | |
|-------------------------|-----------|------------|------------|--------------|-------------|------------|------------|--------------|-------------|
| | ALL SHEEP | MALE | | | | FEMALE | | | |
| | | < 6 Months | 6 Mo < 1yr | 1yr - <2 yrs | 2 yrs &Over | < 6 Months | 6 Mo < 1yr | 1yr - <2 yrs | 2 yrs &Over |
| Somale | 460,116 | 36,702 | 23,718 | 24,951 | 36,378 | 47,532 | 48,583 | 49,482 | 192,770 |
| Shinele | 42,463 | 4,416 | 1,684 | 1,675 | 3,288 | 4,899 | 3,213 | 4,846 | 18,441 |
| Jijiga | 282,051 | 21,407 | 14,760 | 13,454 | 17,186 | 30,226 | 33,310 | 31,226 | 120,482 |
| Liben | 135,602 | 10,879 | * | * | * | 12,406 | * | * | 53,847 |
| Benshangul-Gumuz | 58,027 | 6,754 | 3,787 | 2,197 | 3,540 | 9,041 | 3,214 | 5,423 | 24,071 |
| Metekel | 32,384 | 3,768 | 1,907 | 1,132 | 2,350 | 5,274 | 1,356 | 3,305 | 13,291 |
| Asosa | 12,697 | 1,624 | 1,197 | * | * | 2,055 | 912 | 954 | 5,338 |
| Kemeshi | 12,946 | 1,361 | 683 | 807 | 830 | 1,712 | 946 | 1,164 | 5,443 |
| S.N.N.P.R | 3,007,969 | 346,556 | 143,148 | 119,616 | 154,639 | 370,819 | 236,521 | 294,268 | 1,342,402 |
| Gurage | 241,086 | 31,379 | 7,660 | 4,950 | 4,685 | 36,082 | 14,387 | 21,015 | 120,927 |
| Hadiya | 202,869 | 21,999 | 12,031 | 5,956 | 7,137 | 22,704 | 21,841 | 18,862 | 92,339 |
| Kembata Tembaro | 95,010 | 8,905 | 7,320 | 6,401 | 5,912 | 10,623 | 10,425 | 7,775 | 37,648 |
| Sidama | 315,089 | 42,889 | 9,064 | 7,590 | 9,297 | 52,206 | 21,437 | 28,863 | 143,743 |
| Gedio | 105,712 | 12,164 | 4,529 | 4,928 | 5,406 | 15,474 | 7,871 | 10,470 | 44,870 |
| Wolayita | 122,653 | 16,077 | 11,705 | 6,957 | 6,309 | 11,853 | 13,132 | 14,816 | 41,803 |
| South Omo | 486,963 | 37,036 | 32,577 | 43,591 | 56,515 | 42,626 | 48,525 | 60,474 | 165,618 |
| Shaka | 41,033 | 6,423 | 1,897 | 774 | 699 | 7,015 | 3,097 | 3,472 | 17,656 |
| Kaffa | 319,369 | 52,700 | 7,824 | 4,310 | 4,152 | 52,726 | 16,007 | 21,436 | 160,215 |
| Gamo Gofa | 473,939 | 41,455 | 18,315 | 15,894 | 23,781 | 39,300 | 36,164 | 57,164 | 241,865 |
| Bench-Maji | 148,821 | 23,380 | 3,136 | 1,691 | 3,701 | 24,258 | 8,520 | 10,696 | 73,439 |
| Yem Sp. Wereda | 18,240 | 1,545 | 1,101 | 377 | 370 | 1,852 | 1,540 | 1,343 | 10,111 |
| Amaro Sp. Wereda | 50,091 | 5,117 | 2,349 | 1,690 | 3,054 | 6,278 | 3,814 | 2,879 | 24,909 |
| Burji Sp. Wereda | 1,975 | 288 | 123 | 94 | 196 | 156 | 110 | 122 | 886 |
| Konso Sp. Wereda | 68,468 | 3,559 | 4,008 | 3,716 | 15,662 | 5,758 | 4,300 | 4,846 | 26,619 |
| Dirashe Sp. Wereda | 10,190 | 648 | 584 | 527 | 1,294 | 678 | 604 | 820 | 5,035 |
| Dawro | 76,207 | 10,301 | 7,407 | 2,560 | 1,694 | 9,694 | 6,191 | 8,276 | 30,085 |
| Basketo Sp. Wereda | 9,241 | 1,001 | 312 | 72 | 260 | 1,366 | 775 | 882 | 4,572 |
| Konta Sp. Wereda | 13,576 | 1,932 | 703 | 1,051 | 675 | 1,884 | 1,115 | 1,428 | 4,788 |
| Konta Special | 182,228 | 23,831 | 9,133 | 5,564 | 3,432 | 24,667 | 14,906 | 16,642 | 84,054 |
| Alaba Special | 25,211 | 3,928 | 1,371 | 921 | 408 | 3,619 | 1,759 | 1,987 | 11,218 |
| Harari | 3,757 | 370 | * | 149 | 197 | 473 | 199 | 425 | 1,793 |
| Hundene | 3,757 | 370 | * | 149 | 197 | 473 | 199 | 425 | 1,793 |
| Addis Ababa | 16,494 | 1,944 | 882 | 1,098 | 1,212 | 1,991 | 1,044 | 1,180 | 7,143 |
| Zone 3 | 11,172 | 1,104 | 676 | 811 | 1,111 | 1,284 | 825 | 739 | 4,622 |
| Zone 6 | 5,322 | 840 | * | 286 | * | * | 219 | 442 | 2,521 |
| Dire Dawa | 52,088 | 6,359 | 2,790 | 2,538 | * | 6,471 | 4,530 | 5,941 | 20,281 |

TABLE 3-4: NUMBER OF GOATS BY AGE AND SEX OF ANIMAL, ZONE, AND REGION

| Geographic Area | GOATS | | | | | | | | |
|-------------------|------------|------------|------------|--------------|--------------|------------|------------|--------------|--------------|
| | ALL GOATS | MALE | | | | FEMALE | | | |
| | | < 6 Months | 6 Mo < 1yr | 1yr - <2 yrs | 2 yrs & Over | < 6 Months | 6 Mo < 1yr | 1yr - <2 yrs | 2 yrs & Over |
| Ethiopia | 13,834,703 | 1,746,658 | 766,329 | 578,899 | 1,010,264 | 1,895,985 | 1,074,240 | 1,162,820 | 5,599,507 |
| Tigray | 2,034,710 | 255,488 | 92,793 | 93,602 | 158,396 | 278,406 | 146,727 | 178,117 | 831,181 |
| North West Tigray | 682,642 | 87,509 | 36,398 | 26,941 | 46,520 | 95,052 | 56,895 | 64,725 | 268,602 |
| Central Tigray | 786,190 | 100,951 | 27,572 | 43,464 | 64,220 | 102,513 | 45,105 | 66,238 | 336,128 |
| Eastern Tigray | 144,445 | 14,451 | 7,037 | 4,330 | 13,804 | 15,788 | 9,581 | 12,258 | 67,196 |
| Southern Tigray | 251,078 | 32,522 | 10,287 | 9,149 | 17,620 | 41,189 | 20,742 | 21,534 | 98,034 |
| Western Tigray | 170,356 | 20,056 | 11,499 | 9,718 | 16,232 | 23,864 | 14,404 | 13,362 | 61,221 |
| Afar | 438,083 | 33,346 | 18,523 | 15,195 | 25,496 | 62,947 | 49,150 | 54,233 | 179,194 |
| Zone 1 | 115,851 | 8,589 | 3,227 | 3,192 | 5,426 | 16,430 | 13,274 | 15,875 | 49,836 |
| Zone 3 | 322,232 | 24,757 | 15,295 | 12,003 | 20,070 | 46,516 | 35,876 | 38,358 | 129,357 |
| Amhara | 3,969,106 | 554,229 | 211,167 | 156,196 | 316,942 | 578,746 | 269,179 | 259,623 | 1,623,024 |
| North Gonder | 791,826 | 116,186 | 39,780 | 23,263 | 44,646 | 116,539 | 68,913 | 53,571 | 328,926 |
| South Gonder | 421,895 | 73,169 | 11,727 | 20,204 | 19,916 | 66,532 | 29,334 | 23,798 | 177,215 |
| North Wolo | 550,433 | 62,958 | 27,864 | 17,795 | 47,866 | 81,517 | 39,564 | 31,783 | 241,087 |
| South Wolo | 799,454 | 102,386 | 44,458 | 37,181 | 85,435 | 102,474 | 43,751 | 62,613 | 321,156 |
| North Shewa | 537,105 | 65,890 | 41,391 | 28,699 | 74,340 | 69,051 | 33,503 | 29,214 | 195,017 |
| East Gojam | 163,133 | 23,229 | 8,446 | 5,421 | 9,246 | 27,657 | 10,944 | 11,903 | 66,288 |
| West Gojam | 189,759 | 33,382 | 13,437 | 7,571 | 7,277 | 28,498 | 10,973 | 11,630 | 76,991 |
| Waghamera | 271,727 | 35,043 | 10,421 | 8,894 | 15,079 | 43,965 | 16,365 | 14,279 | 127,679 |
| Agewawie | 104,976 | 17,921 | 6,346 | 4,215 | 5,030 | 17,672 | 7,368 | 10,313 | 36,112 |
| Oromia | 138,798 | 24,064 | 7,297 | 2,954 | 8,108 | 24,839 | 8,465 | 10,519 | 52,553 |
| Oromia | 4,081,039 | 571,339 | 238,608 | 141,083 | 222,776 | 597,648 | 312,233 | 333,281 | 1,664,071 |
| West Wellega | 74,458 | 15,100 | 6,109 | 1,962 | * | 11,008 | 5,764 | 9,307 | 22,067 |
| East Welega | 153,038 | 28,381 | 6,901 | 5,112 | 8,699 | 21,795 | 11,620 | 11,395 | 59,135 |
| Illubabor | 83,951 | 14,245 | 5,863 | 2,786 | 1,900 | 10,774 | 10,117 | * | 34,058 |
| Jimma | 232,125 | 30,164 | 20,612 | 4,188 | * | 24,257 | 21,566 | 14,374 | 102,809 |
| West Shewa | 153,087 | 25,268 | 9,691 | 3,337 | 7,533 | 26,847 | 11,888 | 9,660 | 58,863 |
| North Shewa | 104,112 | 14,203 | 4,975 | 5,367 | 5,850 | 18,520 | 5,602 | 7,052 | 42,544 |
| East Shewa | 445,803 | 59,056 | 23,833 | 12,599 | 21,660 | 61,737 | 36,933 | 34,208 | 195,778 |
| Arsi | 288,098 | 41,998 | 17,220 | 6,650 | 16,266 | 51,189 | 19,896 | 13,282 | 121,597 |
| West Harerghe | 502,589 | 70,269 | 27,708 | 21,773 | 25,840 | 88,669 | 36,675 | 45,741 | 185,915 |
| East Harerghe | 647,955 | 95,247 | 34,906 | 28,152 | 37,795 | 81,932 | 39,074 | 63,546 | 267,301 |
| Bale | 472,863 | 73,480 | 20,293 | 19,204 | 14,420 | 77,244 | 29,878 | 32,888 | 205,456 |
| Borena | 584,729 | 69,298 | 37,420 | 17,074 | 40,484 | 77,426 | 56,656 | 53,894 | 232,478 |
| South West Shewa | 121,776 | 13,609 | 7,432 | 5,178 | 8,618 | 20,389 | 12,078 | 10,749 | 43,722 |
| Guji | 216,453 | 21,020 | 15,644 | 7,700 | 16,415 | 25,861 | 14,486 | 22,978 | 92,349 |

TABLE 3-4 CONT'D

| Geographic Area | GOATS | | | | | | | | |
|-------------------------|-----------|------------|------------|--------------|-------------|------------|------------|--------------|-------------|
| | ALL GOATS | MALE | | | | FEMALE | | | |
| | | < 6 Months | 6 Mo < 1yr | 1yr - <2 yrs | 2 yrs &Over | < 6 Months | 6 Mo < 1yr | 1yr - <2 yrs | 2 yrs &Over |
| Somale | 606,717 | 52,576 | 30,134 | 30,991 | 46,184 | 75,748 | 54,184 | 63,408 | 253,492 |
| Shinele | 84,949 | 8,703 | 3,382 | 3,653 | 5,156 | 13,361 | 6,005 | 9,544 | 35,146 |
| Jijiga | 274,491 | 26,753 | 15,777 | 14,155 | 20,851 | 32,262 | 26,295 | 29,844 | 108,555 |
| Liben | 247,277 | 17,120 | 10,976 | * | 20,177 | 30,125 | 21,884 | 24,021 | 109,792 |
| Benshangul-Gumuz | 218,515 | 27,009 | 14,234 | 8,125 | 15,132 | 29,106 | 22,660 | 17,155 | 85,095 |
| Metekel | 89,579 | 11,047 | 5,910 | 3,769 | 7,077 | 12,931 | 7,975 | 5,073 | 35,797 |
| Asosa | 94,199 | 11,575 | 6,471 | 3,379 | 6,158 | 10,522 | 11,036 | 8,884 | 36,173 |
| Kemeshi | 34,737 | 4,387 | 1,852 | 977 | 1,897 | 5,652 | 3,649 | 3,198 | 13,125 |
| S.N.N.P.R | 2,317,624 | 232,139 | 151,357 | 126,054 | 216,918 | 250,459 | 207,187 | 239,933 | 893,577 |
| Gurage | 115,767 | 11,463 | 5,755 | 2,572 | 5,633 | 16,065 | 11,770 | 6,789 | 55,721 |
| Hadiya | 133,425 | 14,383 | 12,419 | 4,499 | 5,757 | 14,968 | 13,096 | 10,875 | 57,428 |
| Kembata Tembaro | 36,042 | 4,880 | 3,358 | 1,275 | * | 3,972 | 3,855 | 2,685 | 15,236 |
| Sidama | 175,321 | 21,144 | 13,524 | 6,481 | 8,761 | 21,241 | 13,417 | 14,326 | 76,426 |
| Gedio | 9,157 | * | * | * | * | * | 1,044 | 878 | 4,061 |
| Wolayita | 119,539 | 15,640 | 8,071 | 4,735 | 5,486 | 15,392 | 12,940 | 13,273 | 44,003 |
| South Omo | 900,132 | 59,914 | 64,272 | 73,367 | 123,026 | 72,291 | 91,796 | 119,134 | 296,332 |
| Shaka | 8,087 | 1,663 | 323 | * | * | 1,311 | 743 | 654 | 3,036 |
| Kaffa | 87,847 | 15,508 | 2,805 | 2,123 | 3,129 | 17,116 | 4,664 | 4,414 | 38,089 |
| Gamo Gofa | 224,314 | 27,692 | 11,344 | 10,671 | * | 28,988 | 15,713 | 24,892 | 89,478 |
| Bench-Maji | 48,407 | 7,227 | 1,238 | * | * | 8,561 | 3,696 | 2,624 | 22,183 |
| Yem Sp. Wereda | 17,340 | 1,946 | 994 | 360 | 390 | 2,499 | 1,153 | 1,556 | 8,441 |
| Amaro Sp. Wereda | 39,738 | 4,776 | 2,630 | 1,562 | 2,940 | 3,942 | 2,465 | 3,584 | 17,840 |
| Burji Sp. Wereda | 21,507 | 2,507 | 1,230 | 1,038 | 2,088 | 2,375 | 1,146 | 1,510 | 9,614 |
| Konso Sp. Wereda | 116,310 | 12,035 | 7,372 | 6,305 | 18,802 | 9,738 | 6,412 | 9,773 | 45,874 |
| Dirashe Sp. Wereda | 52,133 | 4,346 | 2,583 | 3,367 | 6,946 | 5,655 | 3,701 | 4,184 | 21,352 |
| Dawro | 39,033 | 5,263 | 2,896 | 1,513 | 1,375 | 5,779 | 5,077 | 3,815 | 13,316 |
| Basketo Sp. Wereda | 3,270 | 440 | 155 | 97 | 184 | 283 | 273 | 167 | 1,672 |
| Konta Sp. Wereda | 7,144 | 1,210 | 341 | 263 | 310 | 1,342 | 565 | 683 | 2,429 |
| Konta Special | 122,610 | 14,570 | 7,201 | 3,649 | * | 13,304 | 10,251 | 11,019 | 51,570 |
| Alaba Special | 40,501 | 4,960 | 2,351 | 980 | 1,529 | 4,698 | 3,411 | 3,099 | 19,474 |
| Harari | 26,356 | 3,924 | 1,810 | 819 | 1,016 | 3,800 | 2,170 | 1,402 | 11,415 |
| Hundene | 26,356 | 3,924 | 1,810 | 819 | 1,016 | 3,800 | 2,170 | 1,402 | 11,415 |
| Addis Ababa | 10,218 | 1,112 | 689 | 848 | 641 | 1,469 | 652 | 445 | 4,361 |
| Zone 3 | 7,588 | 764 | 547 | 463 | 570 | 1,048 | 480 | 398 | 3,315 |
| Zone 6 | * | * | * | * | * | 421 | * | * | 1,046 |
| Dire Dawa | 132,335 | 15,497 | 7,012 | 5,985 | 6,763 | 17,658 | 10,099 | 15,223 | 54,097 |

TABLE 3-5: NUMBER OF HORSES AND ASSES BY AGE AND SEX OF ANIMAL, ZONE, AND REGION

| Geographic Area | HORSES AND ASSES | | | | | | | | | |
|-------------------|------------------|-----------|--------------|-----------|--------------|-----------|-----------|--------------|-----------|--------------|
| | ALL HORSES | HORSES | | | | ALL ASSES | ASSES | | | |
| | | MALE | | FEMALE | | | MALE | | FEMALE | |
| | | < 3 Years | 3 Yrs & more | < 3 Years | 3 Yrs & more | | < 3 Years | 3 Yrs & more | < 3 Years | 3 Yrs & more |
| Ethiopia | 1,447,274 | 148,870 | 553,873 | 149,788 | 594,743 | 3,769,871 | 450,726 | 1,311,066 | 448,608 | 1,559,471 |
| Tigray | 2,615 | - | 1,540 | * | * | 368,312 | 38,546 | 171,190 | 31,815 | 126,761 |
| North West Tigray | - | - | - | - | - | 67,522 | 8,577 | 25,262 | 5,096 | 28,586 |
| Central Tigray | - | - | - | - | - | 96,418 | 12,752 | 36,490 | 8,890 | 38,286 |
| Eastern Tigray | * | - | * | - | - | 63,977 | 5,385 | 27,758 | 6,337 | 24,497 |
| Southern Tigray | 1,788 | - | * | * | * | 110,224 | 10,482 | 57,300 | 10,299 | 32,143 |
| Western Tigray | * | - | * | * | * | 30,171 | 1,351 | 24,379 | 1,193 | 3,249 |
| Afar | - | - | - | - | - | 14,148 | 1,920 | 3,454 | 1,943 | 6,830 |
| Zone 1 | - | - | - | - | - | 2,418 | 226 | 580 | 294 | 1,317 |
| Zone 3 | - | - | - | - | - | 11,730 | 1,694 | 2,874 | 1,648 | 5,513 |
| Amhara | 250,679 | 20,848 | 95,763 | 23,121 | 110,947 | 1,356,111 | 185,485 | 364,607 | 199,734 | 606,283 |
| North Gonder | 39,016 | * | 17,009 | 4,125 | 15,340 | 179,158 | 25,141 | 59,876 | 24,378 | 69,763 |
| South Gonder | 22,278 | 1,684 | 4,312 | * | 14,303 | 148,431 | 23,418 | 21,337 | 22,012 | 81,664 |
| North Wolo | 16,724 | * | 6,597 | * | 7,624 | 142,177 | 21,342 | 30,571 | 23,945 | 66,318 |
| South Wolo | 27,783 | * | 9,233 | 2,436 | 15,388 | 267,280 | 30,367 | 83,508 | 40,294 | 113,111 |
| North Shewa | 29,674 | 2,303 | 5,992 | 3,504 | 17,875 | 224,749 | 31,880 | 68,982 | 32,272 | 91,616 |
| East Gojam | 56,529 | 7,398 | 23,322 | 6,720 | 19,089 | 152,471 | 22,206 | 40,126 | 18,915 | 71,224 |
| West Gojam | 7,956 | * | * | - | 3,153 | 142,636 | 19,044 | 33,044 | 22,742 | 67,806 |
| Waghamera | * | - | * | - | * | 36,688 | 4,461 | 12,791 | 4,093 | 15,343 |
| Agewawie | 50,520 | 2,948 | 26,108 | 3,388 | 18,076 | 33,577 | 3,022 | 8,923 | 6,918 | 14,714 |
| Oromia | - | - | - | - | - | 28,944 | 4,602 | 5,451 | 4,166 | 14,724 |
| Oromia | 899,998 | 99,936 | 341,732 | 97,836 | 360,494 | 1,605,134 | 180,142 | 587,761 | 179,630 | 657,600 |
| West Wellega | * | - | * | - | * | 84,685 | 8,077 | 27,334 | 10,025 | 39,248 |
| East Welega | 35,968 | 3,065 | 13,263 | * | 17,516 | 93,948 | 11,026 | 36,556 | 10,482 | 35,884 |
| Illubabor | 33,285 | 4,621 | 8,437 | 5,421 | 14,805 | 9,718 | * | 2,824 | * | 5,135 |
| Jimma | 109,307 | 10,582 | 37,170 | 11,163 | 50,392 | 46,559 | 5,516 | 19,206 | 4,022 | 17,815 |
| West Shewa | 128,009 | 13,839 | 49,815 | 15,511 | 48,845 | 90,378 | 10,488 | 28,913 | 11,493 | 39,484 |
| North Shewa | 70,944 | 8,964 | 17,426 | 11,000 | 33,553 | 140,168 | 20,103 | 40,957 | 20,752 | 58,356 |
| East Shewa | 14,609 | - | 10,351 | * | * | 247,430 | 23,503 | 82,532 | 32,246 | 109,149 |
| Arsi | 221,516 | 26,297 | 82,155 | 22,865 | 90,199 | 253,606 | 28,759 | 78,824 | 32,245 | 113,778 |
| West Harerghe | * | - | - | - | * | 140,150 | 12,962 | 62,429 | 13,666 | 51,093 |
| East Harerghe | * | - | - | * | * | 149,545 | 15,865 | 76,126 | 13,814 | 43,740 |
| Bale | 158,830 | 19,269 | 68,017 | 17,210 | 54,334 | 165,237 | 21,626 | 59,973 | 13,692 | 69,946 |
| Borena | 4,532 | * | 2,850 | - | * | 44,151 | 3,664 | 15,404 | 3,722 | 21,361 |
| South West Shewa | 17,982 | 1,992 | 10,631 | 861 | 4,498 | 92,321 | 10,580 | 37,527 | 9,315 | 34,900 |
| Guji | 99,404 | 10,665 | 39,410 | 9,934 | 39,396 | 47,238 | 6,871 | 19,155 | 3,500 | 17,711 |

TABLE 3-5 CONT'D

| Geographic Area | HORSES AND ASSES | | | | | | | | | |
|-------------------------|------------------|-----------|--------------|-----------|--------------|-----------|-----------|--------------|-----------|--------------|
| | ALL HORSES | HORSES | | | | ALL ASSES | ASSES | | | |
| | | MALE | | FEMALE | | | MALE | | FEMALE | |
| | | < 3 Years | 3 Yrs & more | < 3 Years | 3 Yrs & more | | < 3 Years | 3 Yrs & more | < 3 Years | 3 Yrs & more |
| Somale | * | - | * | * | * | 86,389 | 11,510 | 38,120 | 6,288 | 30,471 |
| Shinele | - | - | - | - | - | 3,565 | 445 | 1,324 | 339 | 1,456 |
| Jijiga | - | - | - | - | - | 61,222 | 8,302 | 28,680 | 3,914 | 20,327 |
| Liben | * | - | * | * | * | 21,601 | 2,762 | 8,116 | 2,035 | 8,688 |
| Benshangul-Gumuz | * | - | - | - | * | 40,789 | 4,046 | 23,555 | 3,813 | 9,375 |
| Metekel | * | - | - | - | * | 18,356 | 1,426 | 13,346 | 642 | 2,942 |
| Asosa | - | - | - | - | - | 18,486 | 2,306 | 7,308 | 2,952 | 5,919 |
| Kemeshi | - | - | - | - | - | 3,948 | 313 | 2,900 | 220 | 514 |
| S.N.N.P.R | 292,773 | 28,087 | 113,956 | 28,273 | 122,458 | 266,505 | 26,591 | 103,581 | 22,714 | 113,619 |
| Gurage | 53,550 | 5,975 | 11,984 | 6,906 | 28,685 | 39,814 | 4,774 | 18,699 | 2,035 | 14,306 |
| Hadiya | 24,108 | 2,768 | 8,277 | 3,106 | 9,957 | 40,029 | 3,423 | 8,541 | 6,501 | 21,564 |
| Kembata Tembaro | 8,309 | * | 2,951 | * | 4,293 | 20,862 | 1,068 | 15,306 | 796 | 3,692 |
| Sidama | 61,832 | 5,289 | 25,432 | * | 27,930 | 41,332 | 5,876 | 16,184 | * | 16,676 |
| Gedio | 20,965 | * | 12,373 | 2,011 | 6,015 | * | - | * | - | * |
| Wolayita | * | - | * | - | - | 25,785 | 2,304 | 14,367 | * | * |
| South Omo | 9,800 | 933 | 4,012 | * | 4,387 | 6,988 | 966 | 1,854 | * | 3,597 |
| Shaka | 2,702 | * | 2,058 | * | * | 942 | * | 905 | - | * |
| Kaffa | 44,747 | 3,814 | 22,839 | 4,275 | 13,819 | * | - | * | - | * |
| Gamo Gofa | 24,166 | * | 9,009 | * | 9,878 | 10,831 | * | 5,657 | * | * |
| Bench-Maji | 11,903 | 1,571 | 4,565 | 1,258 | 4,508 | * | - | * | - | * |
| Yem Sp. Wereda | 551 | 114 | 94 | * | 320 | 2,138 | 239 | 804 | 147 | 948 |
| Amaro Sp. Wereda | 3,100 | 306 | 1,225 | * | 1,283 | 396 | * | * | - | * |
| Burji Sp. Wereda | * | - | * | - | * | 2,998 | 258 | 1,316 | 360 | 1,064 |
| Konso Sp. Wereda | - | - | - | - | - | 2,102 | * | 895 | 251 | 784 |
| Dirashe Sp. Wereda | * | - | * | * | - | 7,219 | 497 | 4,475 | 315 | 1,931 |
| Dawro | 5,974 | 455 | 1,868 | * | 3,368 | 3,062 | * | 2,436 | - | 540 |
| Basketo Sp. Wereda | 354 | 54 | 229 | * | * | * | * | * | - | * |
| Konta Sp. Wereda | 1,138 | * | 595 | * | 294 | - | - | - | - | * |
| Konta Special | 17,624 | 2,717 | 5,218 | 2,801 | 6,888 | 44,282 | 4,240 | 8,405 | 5,213 | 26,423 |
| Alaba Special | 1,273 | * | 604 | * | 416 | 15,523 | 1,916 | 1,279 | 2,199 | 10,128 |
| Harari | - | - | - | - | - | 6,483 | 609 | 3,129 | 640 | 2,105 |
| Hundene | - | - | - | - | - | 6,483 | 609 | 3,129 | 640 | 2,105 |
| Addis Ababa | 859 | - | 829 | - | * | 15,884 | 701 | 12,482 | 575 | 2,126 |
| Zone 3 | 685 | - | 654 | - | * | 10,416 | 212 | 9,515 | * | 509 |
| Zone 6 | 174 | - | 174 | - | - | 5,468 | 489 | 2,967 | 395 | 1,617 |
| Dire Dawa | * | - | - | * | - | 10,118 | 1,177 | 3,187 | 1,455 | 4,299 |

TABLE 3-6: NUMBER OF MULES AND CAMELS BY AGE AND SEX OF ANIMAL, ZONE, AND REGION

| Geographic Area | MULES | | | | | CAMELS | | | | |
|-------------------|-----------|-----------|-------------------|-----------|-------------------|------------|-----------|-------------------|-----------|-------------------|
| | All Mules | MALE | | FEMALE | | All Camels | MALE | | FEMALE | |
| | | < 3 Years | 3 Years and Older | < 3 Years | 3 Years and Older | | < 4 Years | 4 Years and Older | < 4 Years | 4 Years and Older |
| Ethiopia | 321,339 | 22,289 | 134,293 | 27,589 | 137,168 | 471,145 | 53,855 | 123,064 | 76,026 | 218,200 |
| Tigray | 10,062 | * | 2,973 | - | 6,816 | 38,562 | * | 35,390 | * | * |
| North West Tigray | 1,218 | - | * | - | 1,049 | 3,328 | - | 2,708 | * | * |
| Central Tigray | 2,311 | * | * | - | * | 6,676 | * | 5,983 | - | * |
| Eastern Tigray | 2,035 | - | * | - | 1,261 | - | * | * | - | * |
| Southern Tigray | 3,625 | - | 771 | - | * | 26,143 | * | 24,434 | - | * |
| Western Tigray | 872 | - | 469 | - | 403 | 1,929 | - | 1,779 | * | * |
| Afar | 382 | - | 235 | - | 147 | 124,536 | 9,304 | 14,203 | 28,808 | 72,221 |
| Zone 1 | - | - | - | - | - | 15,587 | 1,169 | 5,113 | 2,473 | 6,833 |
| Zone 3 | 382 | - | 235 | - | 147 | 108,949 | 8,136 | 9,089 | 26,335 | 65,389 |
| Amhara | 90,652 | 6,581 | 28,818 | 13,133 | 42,120 | 20,317 | 1,960 | 16,699 | - | * |
| North Gondar | 10,956 | * | 3,873 | * | 5,346 | - | * | * | - | * |
| South Gondar | 14,929 | 1,569 | * | 2,037 | 6,069 | - | - | - | - | * |
| North Wolo | 10,868 | * | * | * | 6,354 | - | * | * | - | * |
| South Wolo | 21,761 | * | 5,105 | 3,546 | 11,931 | - | * | * | - | * |
| North Shewa | 10,580 | * | 4,420 | 1,847 | 3,117 | - | - | - | - | * |
| East Gojam | 6,338 | - | * | * | 3,503 | - | * | - | - | * |
| West Gojam | 9,741 | * | 4,429 | 1,346 | 3,599 | - | - | - | - | * |
| Waghamera | 2,371 | * | 926 | - | 1,343 | - | - | - | - | * |
| Agewawie | 3,015 | 750 | 1,052 | * | 859 | - | - | - | - | * |
| Oromia | * | - | * | - | - | 9,205 | 1,667 | 7,239 | - | * |
| Oromia | 149,575 | 10,728 | 67,229 | 11,977 | 59,641 | 113,527 | 20,636 | 16,320 | 21,142 | 55,430 |
| West Wellega | 8,121 | - | 5,145 | - | 2,976 | - | - | - | - | * |
| East Welega | 10,593 | * | 4,697 | * | 4,688 | - | - | - | - | * |
| Illubabor | 5,440 | * | 1,684 | * | 3,125 | - | - | - | - | * |
| Jimma | 34,069 | * | 8,847 | 4,469 | 19,482 | - | - | - | - | * |
| West Shewa | 5,430 | * | * | * | 2,332 | - | - | - | - | * |
| North Shewa | 5,692 | * | 1,367 | * | 1,768 | - | - | - | - | * |
| East Shewa | 5,898 | * | 4,909 | - | * | - | * | * | * | * |
| Arsi | 26,520 | 2,998 | 14,301 | 1,625 | 7,596 | - | * | - | - | * |
| West Harerghe | 3,549 | * | * | * | * | 24,282 | * | * | 3,924 | 13,103 |
| East Harerghe | * | - | * | - | - | - | * | * | * | * |
| Bale | 15,804 | * | 9,747 | * | 4,848 | - | * | * | * | * |
| Borena | 4,386 | - | 3,091 | - | 1,295 | 37,805 | 8,935 | 4,477 | 6,996 | 17,396 |
| South West Shewa | 8,515 | 761 | 3,186 | 932 | 3,636 | - | - | - | - | * |
| Guji | 14,872 | 974 | 7,452 | 1,166 | 5,280 | - | * | * | * | * |

TABLE 3-6 CONT'D

| Geographic Area | MULES | | | | | CAMELS | | | | |
|-------------------------|-----------|-----------|-------------------|-----------|-------------------|------------|-----------|-------------------|-----------|-------------------|
| | All Mules | MALE | | FEMALE | | All Camels | MALE | | FEMALE | |
| | | < 3 Years | 3 Years and Older | < 3 Years | 3 Years and Older | | < 4 Years | 4 Years and Older | < 4 Years | 4 Years and Older |
| Somale | * | * | - | - | * | 163,494 | 18,876 | 37,381 | 23,759 | 83,479 |
| Shinele | - | - | - | - | - | 6,767 | 914 | 1,918 | 892 | 3,043 |
| Jijiga | - | - | - | - | - | 30,676 | 4,771 | 12,962 | 3,072 | 9,870 |
| Liben | * | * | - | - | * | 126,051 | 13,191 | 22,500 | * | 70,566 |
| Benshangul-Gumuz | 1,521 | - | 777 | - | 744 | - | - | - | - | * |
| Metekel | 1,304 | - | 722 | - | 581 | - | - | - | - | * |
| Asosa | * | - | - | - | * | - | - | - | - | * |
| Kemeshi | 147 | - | * | - | * | - | - | - | - | * |
| S.N.N.P.R | 68,221 | 4,539 | 33,621 | 2,453 | 27,610 | - | * | * | - | * |
| Gurage | 6,796 | - | 2,882 | 1,108 | 2,805 | - | - | - | - | * |
| Hadiya | 13,031 | * | 6,103 | * | 5,982 | - | - | - | - | * |
| Kembata Tembaro | 2,259 | * | 1,203 | * | 784 | - | - | - | - | * |
| Sidama | * | - | * | - | * | - | - | - | - | * |
| Gedio | 3,355 | * | 1,954 | - | 1,306 | - | - | - | - | * |
| Wolayita | 3,136 | * | 1,990 | - | * | - | - | - | - | * |
| South Omo | 2,922 | * | 1,199 | * | 1,457 | - | * | * | - | * |
| Shaka | * | - | * | - | * | - | - | - | - | * |
| Kaffa | 8,349 | * | 6,029 | - | 2,106 | - | - | - | - | * |
| Gamo Gofa | 7,887 | * | 3,003 | * | 4,006 | - | - | - | - | * |
| Bench-Maji | 2,156 | - | * | - | 1,769 | - | - | - | - | * |
| Yem Sp. Wereda | 161 | - | * | * | 115 | - | - | - | - | * |
| Amaro Sp. Wereda | 1,058 | 161 | 422 | * | 394 | - | - | - | - | * |
| Burji Sp. Wereda | 92 | - | * | - | 71 | - | - | - | - | * |
| Konso Sp. Wereda | - | - | - | - | - | - | - | - | - | * |
| Dirashe Sp. Wereda | * | - | * | - | - | - | - | - | - | * |
| Dawro | 4,273 | * | 2,591 | * | 1,400 | - | - | - | - | * |
| Basketo Sp. Wereda | 399 | * | 196 | * | 173 | - | - | - | - | * |
| Konta Sp. Wereda | 778 | * | 485 | - | 267 | - | - | - | - | * |
| Konta Special | 6,382 | 2,116 | 2,402 | * | 1,668 | - | - | - | - | * |
| Alaba Special | 701 | - | 409 | - | 292 | - | - | - | - | * |
| Harari | - | - | - | - | - | - | * | * | * | * |
| Hundene | - | - | - | - | - | - | * | * | * | * |
| Addis Ababa | 704 | 101 | 579 | - | * | - | - | - | - | * |
| Zone 3 | 297 | * | * | - | - | - | - | - | - | * |
| Zone 6 | 407 | * | 307 | - | * | - | - | - | - | * |
| Dire Dawa | * | - | * | * | - | 7,948 | 1,176 | 2,762 | 1,030 | 2,980 |

TABLE 3-7: CATTLE AGED 3 – 10 YEARS BY SEX, PURPOSE, ZONE, AND REGION

| Geographic Area | CATTLE AGED 3 – 10 YEARS | | | | | | | | | |
|-------------------|--------------------------|-----------|---------|----------|---------|-----------|---------|--------|-----------|---------|
| | Total | MALE | | | | FEMALE | | | | |
| | | Draught | Beef | Breeding | Other | Milk | Draught | Beef | Breeding | Other |
| Ethiopia | 23,291,658 | 9,237,674 | 144,761 | 281,455 | 324,348 | 7,086,577 | 119,334 | 44,893 | 5,162,332 | 890,282 |
| Tigray | 1,605,538 | 757,398 | 6,291 | 15,573 | 7,030 | 138,935 | 5,882 | 2,464 | 657,991 | 13,973 |
| North West Tigray | 399,162 | 160,483 | * | 6,004 | * | 29,120 | 936 | * | 197,144 | * |
| Central Tigray | 433,090 | 233,953 | 1,368 | 1,662 | 4,448 | 37,852 | 1,262 | * | 144,578 | 6,988 |
| Eastern Tigray | 184,827 | 91,425 | * | 3,147 | * | 26,172 | 2,201 | * | 59,960 | * |
| Southern Tigray | 378,874 | 194,769 | * | 1,787 | * | * | * | * | 135,763 | * |
| Western Tigray | 209,585 | 76,769 | * | 2,972 | * | * | * | * | 120,546 | * |
| Afar | 199,537 | 12,293 | 1,196 | 12,196 | 467 | 115,597 | 638 | 349 | 53,800 | 3,002 |
| Zone 1 | 69,167 | 4,949 | * | 2,319 | * | 40,885 | 249 | - | 18,221 | 2,364 |
| Zone 3 | 130,370 | 7,344 | 1,144 | 9,876 | 340 | 74,712 | * | 349 | 35,579 | 638 |
| Amhara | 6,109,445 | 3,070,417 | 17,072 | 28,825 | 61,208 | 654,102 | 61,173 | 11,451 | 2,046,880 | 158,318 |
| North Gonder | 957,367 | 421,567 | * | 8,773 | 10,748 | 180,935 | * | 2,575 | 308,603 | 15,701 |
| South Gonder | 696,745 | 352,654 | * | * | 8,085 | 70,967 | 9,082 | * | 225,292 | 27,575 |
| North Wolo | 536,763 | 271,666 | * | 1,239 | - | 64,572 | 3,937 | * | 190,158 | * |
| South Wolo | 900,874 | 466,575 | * | 8,494 | * | 101,799 | 15,772 | * | 299,311 | * |
| North Shewa | 646,872 | 378,460 | * | * | 7,231 | 29,722 | * | * | 201,105 | 21,030 |
| East Gojam | 712,404 | 385,002 | * | 5,860 | 4,980 | 53,382 | 6,802 | * | 238,292 | 16,985 |
| West Gojam | 946,817 | 498,860 | 3,115 | * | 15,310 | 84,760 | 8,135 | * | 284,476 | 49,061 |
| Waghamera | 144,778 | 65,708 | * | * | * | 28,390 | 1,779 | - | 45,758 | 2,158 |
| Agewawie | 376,327 | 153,445 | * | 896 | 8,543 | 9,575 | 10,080 | * | 179,253 | 13,996 |
| Oromia | 190,499 | 76,479 | * | * | 2,730 | 29,998 | * | - | 74,631 | 5,510 |
| Oromia | 10,176,989 | 3,984,173 | 89,321 | 133,657 | 155,928 | 3,583,905 | 42,586 | 19,783 | 1,817,346 | 350,289 |
| West Wellega | 601,591 | 258,480 | * | * | 14,348 | 257,504 | * | * | 38,988 | 23,271 |
| East Welega | 791,065 | 343,540 | * | 6,847 | 24,469 | 165,101 | * | * | 214,449 | 28,548 |
| Illubabor | 442,904 | 190,823 | * | 2,200 | 1,266 | 118,197 | * | - | 123,263 | 5,337 |
| Jimma | 1,130,316 | 495,372 | * | 3,666 | 8,776 | 379,359 | 3,466 | * | 203,023 | 31,404 |
| West Shewa | 903,150 | 401,674 | 6,266 | 12,282 | 9,680 | 367,863 | * | * | 89,206 | 14,342 |
| North Shewa | 718,202 | 313,417 | 8,231 | 12,794 | 13,081 | 234,825 | * | * | 110,274 | 18,160 |
| East Shewa | 749,108 | 324,747 | 5,370 | * | 3,585 | 225,802 | * | * | 156,319 | 20,007 |
| Arsi | 1,403,949 | 618,706 | 9,222 | 7,977 | 27,609 | 449,682 | 10,826 | 2,520 | 214,098 | 63,309 |
| West Harerghe | 430,386 | 174,584 | 6,879 | 8,051 | * | 119,994 | 1,300 | * | 108,307 | 10,545 |
| East Harerghe | 505,798 | 128,184 | 9,739 | 3,501 | * | 233,939 | 2,399 | 3,280 | 103,537 | 15,508 |
| Bale | 1,078,344 | 327,420 | 13,845 | 11,293 | 30,265 | 496,474 | * | * | 113,833 | 81,494 |
| Borena | 516,566 | 108,797 | 12,653 | 21,180 | * | 183,463 | * | * | 167,102 | 15,048 |
| South West Shewa | 405,745 | 197,899 | 2,779 | 2,084 | 8,402 | 136,680 | 2,373 | * | 38,895 | 16,085 |
| Guji | 499,865 | 100,530 | 6,553 | 27,781 | 2,779 | 215,021 | * | * | 136,052 | 7,232 |

TABLE 3-7 CONT'D

| Geographic Area | CATTLE AGED 3 – 10 YEARS | | | | | | | | | |
|-------------------------|--------------------------|-----------|--------|----------|--------|-----------|---------|-------|----------|---------|
| | Total | MALE | | | | FEMALE | | | | |
| | | Draught | Beef | Breeding | Other | Milk | Draught | Beef | Breeding | Other |
| Somale | 281,720 | 63,398 | * | 10,455 | 835 | 81,721 | 958 | * | 117,911 | 3,299 |
| Shinele | 10,075 | 1,348 | 419 | 285 | 56 | 6,816 | - | - | 335 | 815 |
| Jijiga | 182,084 | 57,017 | * | 3,814 | * | 30,900 | 607 | * | 87,323 | * |
| Liben | 89,562 | 5,033 | * | 6,356 | 643 | 44,004 | * | * | 30,253 | 2,112 |
| Benshangul-Gumuz | 176,448 | 67,999 | 1,328 | 2,577 | 3,622 | 26,175 | 1,470 | 316 | 67,865 | 5,096 |
| Metekel | 114,280 | 43,562 | 1,199 | 1,750 | 2,819 | 3,947 | * | * | 57,866 | 2,763 |
| Asosa | 42,445 | 17,685 | * | * | * | 17,358 | * | * | 3,692 | 1,483 |
| Kemeshi | 19,722 | 6,752 | * | 364 | * | 4,870 | * | - | 6,307 | * |
| S.N.N.P.R | 4,654,367 | 1,249,586 | 25,153 | 77,134 | 94,335 | 2,446,775 | 6,304 | 9,545 | 393,582 | 351,953 |
| Gurage | 546,069 | 97,734 | 1,124 | 3,360 | 11,618 | 314,398 | 1,847 | * | 29,823 | 85,398 |
| Hadiya | 429,919 | 148,493 | - | 1,709 | 17,157 | 186,590 | * | - | 24,599 | 51,124 |
| Kembata Tembaro | 173,143 | 54,834 | - | * | 3,975 | 89,388 | * | * | 1,973 | 21,839 |
| Sidama | 777,242 | 70,609 | 4,122 | 7,541 | * | 578,277 | - | * | 28,709 | 66,752 |
| Gedio | 54,444 | 2,653 | 10,650 | 1,162 | * | 25,529 | * | 3,107 | 6,030 | 3,646 |
| Wolayita | 416,355 | 126,444 | * | * | 11,032 | 218,672 | * | 1,219 | 14,661 | 38,111 |
| South Omo | 362,676 | 71,999 | * | 41,012 | * | 153,799 | * | - | 85,603 | 4,267 |
| Shaka | 41,516 | 11,909 | * | * | * | 22,138 | * | * | 5,440 | 1,217 |
| Kaffa | 332,137 | 139,116 | * | * | * | 157,060 | * | * | 30,647 | * |
| Gamo Gofa | 527,022 | 170,334 | * | 9,087 | 6,088 | 241,924 | - | - | 70,900 | 28,417 |
| Bench-Maji | 217,360 | 70,012 | * | * | * | 122,621 | * | * | 18,478 | * |
| Yem Sp. Wereda | 33,929 | 14,358 | * | * | 996 | 10,817 | * | * | 5,396 | 1,987 |
| Amaro Sp. Wereda | 50,511 | 16,436 | 254 | 837 | 751 | 18,192 | * | * | 12,594 | 1,343 |
| Burji Sp. Wereda | 23,893 | 12,903 | * | 247 | 1,010 | 7,381 | - | - | 1,435 | 903 |
| Konso Sp. Wereda | 53,100 | 21,955 | 3,090 | 1,091 | * | 16,757 | - | * | 9,096 | 692 |
| Dirashe Sp. Wereda | 47,766 | 23,858 | 430 | 1,220 | * | 13,393 | - | - | 7,249 | 899 |
| Dawro | 173,377 | 44,740 | * | * | 5,792 | 104,888 | * | 501 | 5,790 | 9,988 |
| Basketo Sp. Wereda | 12,533 | 4,537 | * | 104 | * | 6,446 | - | * | 746 | 514 |
| Konta Sp. Wereda | 32,947 | 12,916 | * | 283 | 135 | 17,267 | - | * | 1,934 | 292 |
| Konta Special | 276,897 | 106,985 | - | 1,676 | 6,183 | 113,293 | * | - | 26,865 | 21,337 |
| Alaba Special | 71,534 | 26,762 | * | * | 2,671 | 27,946 | - | - | * | 7,775 |
| Harari | 17,624 | 4,527 | 383 | * | * | 8,177 | * | * | 3,430 | 748 |
| Hundene | 17,624 | 4,527 | 383 | * | * | 8,177 | * | * | 3,430 | 748 |
| Addis Ababa | 44,501 | 22,769 | 1,401 | 561 | 759 | 13,851 | 270 | * | 3,018 | 1,744 |
| Zone 3 | 31,184 | 14,815 | 1,140 | * | 429 | 10,795 | 246 | * | 2,015 | 1,225 |
| Zone 6 | 13,318 | 7,954 | 261 | * | 331 | 3,055 | * | * | 1,003 | 520 |
| Dire Dawa | 25,488 | 5,114 | * | * | * | 17,340 | * | * | 509 | 1,859 |

TABLE 3-8: SHEEP AGED 2 YEARS AND OLDER BY SEX, PURPOSE, ZONE, AND REGION

| Geographic Area | SHEEP AGED 2 YEARS AND OLDER | | | | | | | | |
|-------------------|------------------------------|-------------|-------|----------|--------|-------------|--------|-----------|--------|
| | Total | MALE | | | | FEMALE | | | |
| | | Mutton/Meat | Wool | Breeding | Other | Mutton/Meat | Wool | Breeding | Other |
| Ethiopia | 8,492,169 | 296,030 | 6,221 | 422,780 | 30,837 | 34,154 | 85,811 | 7,596,380 | 19,956 |
| Tigray | 337,141 | 4,842 | * | 24,318 | * | 2,263 | 3,531 | 300,421 | 1,549 |
| North West Tigray | 25,242 | * | - | 2,385 | - | - | - | 22,552 | * |
| Central Tigray | 70,779 | * | - | 2,847 | - | - | 2,174 | 63,942 | 1,360 |
| Eastern Tigray | 171,690 | * | - | 13,046 | * | 1,271 | 832 | 155,184 | 189 |
| Southern Tigray | 56,070 | * | - | 4,331 | - | 992 | 375 | 47,456 | * |
| Western Tigray | 13,360 | * | * | * | - | - | 150 | 11,287 | * |
| Afar | 113,536 | 2,007 | 219 | 13,470 | 600 | 2,572 | 3,113 | 90,598 | 958 |
| Zone 1 | 32,119 | 460 | * | 2,492 | * | 391 | 634 | 27,547 | 144 |
| Zone 3 | 81,417 | 1,547 | * | 10,979 | * | 2,181 | 2,479 | 63,051 | 814 |
| Amhara | 3,369,602 | 140,679 | * | 169,377 | 16,382 | 12,825 | 34,161 | 2,987,571 | 6,907 |
| North Gonder | 262,119 | * | * | 12,140 | - | 1,236 | 5,908 | 239,538 | * |
| South Gonder | 276,825 | 3,793 | - | 3,598 | * | 1,870 | 431 | 266,775 | * |
| North Wolo | 363,419 | 16,471 | - | 25,676 | * | 1,210 | 3,963 | 314,591 | 603 |
| South Wolo | 956,219 | 46,386 | * | 73,113 | 5,902 | - | 5,195 | 824,849 | 364 |
| North Shewa | 632,311 | 41,235 | * | 39,775 | 7,059 | 2,302 | 9,888 | 528,451 | 3,275 |
| East Gojam | 441,910 | 13,491 | - | 4,547 | * | 3,398 | 6,795 | 411,162 | 1,307 |
| West Gojam | 243,060 | 12,787 | - | 4,013 | - | 2,039 | 1,454 | 221,757 | 1,011 |
| Waghamera | 31,197 | * | - | 3,353 | * | - | - | 26,799 | 189 |
| Agewawie | 151,221 | 2,416 | - | 2,783 | - | 770 | 527 | 144,566 | 159 |
| Oromia | 11,321 | 1,406 | - | * | * | - | - | 9,081 | * |
| Oromia | 2,884,288 | 79,391 | 2,116 | 94,649 | 6,757 | 12,451 | 32,006 | 2,654,077 | 2,841 |
| West Wellega | 86,865 | * | * | 4,157 | - | 298 | 1,075 | 79,319 | * |
| East Welega | 135,920 | 2,006 | * | 6,132 | * | 290 | 3,772 | 121,910 | * |
| Illubabor | 141,098 | 2,031 | - | 1,913 | - | 413 | 1,052 | 135,689 | * |
| Jimma | 348,670 | 6,977 | - | * | * | - | 4,690 | 327,544 | * |
| West Shewa | 335,623 | 9,934 | - | 7,444 | * | 2,615 | 7,161 | 305,911 | * |
| North Shewa | 420,534 | 14,512 | - | 11,997 | * | 301 | 566 | 390,484 | 1,875 |
| East Shewa | 117,980 | 2,378 | - | 6,368 | * | - | 2,542 | 106,407 | * |
| Arsi | 566,606 | 11,299 | - | 14,508 | - | 5,446 | 2,705 | 532,238 | 410 |
| West Harerghe | 60,174 | * | - | * | * | 1,074 | 705 | 52,774 | * |
| East Harerghe | 107,892 | 8,637 | * | 3,519 | - | 366 | 1,174 | 93,610 | * |
| Bale | 289,570 | * | * | 8,089 | - | - | 4,871 | 267,533 | * |
| Borena | 85,258 | 3,913 | - | 7,932 | * | 904 | 684 | 71,629 | * |
| South West Shewa | 70,835 | 3,610 | - | * | * | 745 | 175 | 63,689 | 391 |
| Guji | 117,262 | 960 | - | 9,812 | * | - | 834 | 105,340 | 165 |

TABLE 3-8 CONT'D

| Geographic Area | SHEEP AGED 2 YEARS AND OLDER | | | | | | | | |
|-------------------------|------------------------------|-------------|------|----------|-------|-------------|-------|-----------|-------|
| | Total | MALE | | | | FEMALE | | | |
| | | Mutton/Meat | Wool | Breeding | Other | Mutton/Meat | Wool | Breeding | Other |
| Somale | 229,148 | 9,939 | 65 | 26,356 | 18 | 789 | 1,580 | 189,581 | 821 |
| Shinele | 21,729 | 1,521 | 59 | 1,690 | 18 | 75 | 284 | 18,082 | * |
| Jijiga | 137,668 | * | - | 12,948 | - | 86 | 912 | 119,296 | 188 |
| Liben | 69,751 | * | * | * | - | 627 | 383 | 52,203 | 633 |
| Benshangul-Gumuz | 27,611 | 880 | * | 2,401 | * | - | 1,103 | 22,858 | 109 |
| Metekel | 15,641 | 647 | - | 1,511 | * | - | 844 | 12,365 | 82 |
| Asosa | 5,698 | * | - | * | - | - | 72 | 5,266 | * |
| Kemeshi | 6,272 | * | * | 711 | * | - | 187 | 5,228 | 28 |
| S.N.N.P.R | 1,497,040 | 56,422 | * | 89,517 | 6,716 | 3,156 | 9,813 | 1,322,691 | 6,742 |
| Gurage | 125,612 | 2,477 | - | 2,208 | - | 260 | - | 119,865 | 802 |
| Hadiya | 99,477 | 2,566 | - | 1,800 | * | 503 | - | 91,170 | 666 |
| Kembata Tembaro | 43,560 | 4,415 | * | * | * | - | - | 37,518 | 131 |
| Sidama | 153,040 | 3,546 | - | 5,326 | * | - | 4,033 | 138,678 | 1,031 |
| Gedio | 50,275 | 1,904 | - | 3,501 | - | 330 | 195 | 44,251 | 94 |
| Wolayita | 48,112 | 3,122 | - | 3,187 | - | - | - | 41,501 | 302 |
| South Omo | 222,133 | 11,363 | * | 43,902 | - | 430 | 1,149 | 163,961 | 78 |
| Shaka | 18,355 | * | * | * | * | 139 | 559 | 16,867 | 91 |
| Kaffa | 164,366 | * | - | 1,452 | 1,340 | 533 | 423 | 156,973 | 2,287 |
| Gamo Gofa | 265,646 | 6,661 | - | 16,280 | * | - | 1,141 | 240,424 | 300 |
| Bench-Maji | 77,140 | * | * | 767 | * | - | 1,319 | 72,120 | * |
| Yem Sp. Wereda | 10,481 | 234 | - | 136 | - | 48 | 21 | 10,042 | * |
| Amaro Sp. Wereda | 27,964 | 669 | - | 2,336 | * | 96 | 50 | 24,764 | * |
| Burji Sp. Wereda | 1,082 | 82 | - | 100 | * | 13 | - | 873 | * |
| Konso Sp. Wereda | 42,281 | 11,482 | - | 4,179 | - | 138 | - | 26,481 | * |
| Dirashe Sp. Wereda | 6,329 | 498 | * | 767 | - | 33 | 215 | 4,787 | * |
| Dawro | 31,779 | 1,172 | - | * | - | 196 | - | 29,888 | * |
| Basketo Sp. Wereda | 4,832 | 141 | - | 105 | * | 17 | 99 | 4,439 | 17 |
| Konta Sp. Wereda | 5,464 | * | - | 502 | - | - | 26 | 4,763 | * |
| Konta Special | 87,486 | 1,805 | - | * | * | 368 | 584 | 82,209 | 893 |
| Alaba Special | 11,626 | * | - | * | * | 53 | - | 11,115 | 50 |
| Harari | 1,990 | 150 | * | * | - | - | - | 1,793 | * |
| Hundene | 1,990 | 150 | * | * | - | - | - | 1,793 | * |
| Addis Ababa | 8,354 | 692 | - | 520 | - | 51 | 71 | 7,021 | * |
| Zone 3 | 5,733 | 665 | - | 446 | - | 25 | - | 4,597 | * |
| Zone 6 | 2,622 | * | - | * | - | 26 | 71 | 2,424 | * |
| Dire Dawa | 23,459 | 1,029 | - | * | - | 47 | 433 | 19,770 | 30 |

TABLE 3-9: GOATS AGED 2 YEARS AND OLDER BY SEX, PURPOSE, ZONE, AND REGION

| Geographic Area | GOATS AGED 2 YEARS AND OLDER | | | | | | | |
|-------------------|------------------------------|---------|----------|--------|---------|--------|-----------|--------|
| | Total | MALE | | | FEMALE | | | |
| | | Meat | Breeding | Other | Meat | Milk | Breeding | Other |
| Ethiopia | 6,609,771 | 408,432 | 562,186 | 39,646 | 514,435 | 36,640 | 5,026,188 | 22,245 |
| Tigray | 989,577 | 42,139 | 109,757 | 6,500 | 22,155 | 5,783 | 799,806 | 3,438 |
| North West Tigray | 315,122 | 8,137 | 36,666 | * | * | 2,982 | 259,072 | * |
| Central Tigray | 400,348 | 24,665 | 38,705 | * | 6,712 | * | 327,638 | 1,324 |
| Eastern Tigray | 81,001 | 1,832 | 11,034 | * | * | * | 62,694 | * |
| Southern Tigray | 115,653 | * | 10,393 | * | * | * | 89,489 | * |
| Western Tigray | 77,453 | 3,020 | 12,959 | * | - | * | 60,914 | * |
| Afar | 204,690 | 4,705 | 20,287 | 505 | 98,176 | 1,645 | 79,060 | * |
| Zone 1 | 55,263 | * | 4,827 | * | 23,452 | * | 26,221 | * |
| Zone 3 | 149,427 | 4,152 | 15,460 | * | 74,724 | 1,570 | 52,839 | * |
| Amhara | 1,939,966 | 185,046 | 115,184 | 16,712 | 11,018 | 12,378 | 1,594,541 | 5,086 |
| North Gonder | 373,573 | 22,837 | 21,371 | * | * | * | 320,137 | * |
| South Gonder | 197,131 | 14,449 | * | - | - | * | 172,258 | * |
| North Wolo | 288,953 | 19,009 | 28,568 | * | * | * | 238,640 | * |
| South Wolo | 406,590 | 48,476 | 31,817 | * | * | * | 319,257 | * |
| North Shewa | 269,357 | 57,976 | 10,889 | * | - | - | 195,017 | * |
| East Gojam | 75,534 | 8,143 | * | * | - | * | 64,185 | * |
| West Gojam | 84,268 | 4,920 | * | * | * | * | 74,576 | * |
| Waghamera | 142,758 | 2,567 | 10,420 | * | * | * | 123,229 | * |
| Agewawie | 41,142 | 3,114 | * | - | - | * | 35,229 | * |
| Oromia | 60,661 | 3,555 | 3,708 | * | * | * | 52,014 | * |
| Oromia | 1,886,847 | 91,228 | 125,891 | 5,656 | 240,082 | 11,188 | 1,406,440 | 6,362 |
| West Wellega | 25,207 | * | * | - | - | * | 21,381 | * |
| East Welega | 67,834 | 3,342 | 4,499 | * | * | - | 58,142 | * |
| Illubabor | 35,958 | 1,147 | * | * | * | - | 33,860 | * |
| Jimma | 116,964 | * | * | * | * | * | 99,012 | * |
| West Shewa | 66,396 | 4,696 | * | - | * | * | 58,187 | * |
| North Shewa | 48,394 | 3,239 | 2,611 | - | - | * | 42,300 | * |
| East Shewa | 217,438 | 8,083 | 13,577 | - | 44,606 | * | 150,882 | * |
| Arsi | 137,863 | 12,021 | 3,074 | * | 3,932 | * | 115,942 | * |
| West Harerghe | 211,755 | 12,532 | 12,715 | * | 37,538 | * | 146,519 | * |
| East Harerghe | 305,096 | 17,223 | 19,663 | * | 21,950 | 1,513 | 242,036 | * |
| Bale | 219,877 | 9,592 | 4,542 | * | 87,609 | * | 116,885 | * |
| Borena | 272,962 | 11,064 | 29,419 | - | 27,903 | * | 200,284 | * |
| South West Shewa | 52,340 | 5,124 | 3,302 | * | * | * | 42,069 | * |
| Guji | 108,764 | 1,336 | 14,025 | * | * | * | 78,942 | * |

TABLE 3-9 CONT'D

| Geographic Area | GOATS AGED 2 YEARS AND OLDER | | | | | | | |
|-------------------------|------------------------------|--------|----------|-------|--------|-------|----------|-------|
| | Total | MALE | | | FEMALE | | | |
| | | Meat | Breeding | Other | Meat | Milk | Breeding | Other |
| Somale | 299,676 | 12,711 | 33,245 | * | 42,976 | 1,297 | 208,588 | * |
| Shinele | 40,302 | 2,450 | 2,707 | - | 9,242 | 329 | 25,536 | * |
| Jijiga | 129,405 | 5,268 | 15,476 | * | 2,911 | - | 105,537 | * |
| Liben | 129,969 | * | 15,062 | * | 30,823 | * | 77,515 | * |
| Benshangul-Gumuz | 100,226 | 3,414 | 9,983 | 1,735 | 1,668 | * | 82,214 | * |
| Metekel | 42,873 | 2,576 | 3,557 | * | * | * | 34,225 | * |
| Asosa | 42,331 | * | 4,876 | * | * | * | 34,865 | * |
| Kemeshi | 15,022 | * | 1,549 | * | - | - | 13,125 | * |
| S.N.N.P.R | 1,110,494 | 65,214 | 143,395 | 8,309 | 86,902 | 3,369 | 797,348 | 5,957 |
| Gurage | 61,354 | 3,297 | * | * | * | - | 54,554 | * |
| Hadiya | 63,186 | 1,902 | 2,285 | * | 4,568 | - | 52,860 | * |
| Kembata Tembaro | 16,016 | * | * | - | 2,499 | - | 12,195 | * |
| Sidama | 85,187 | * | 3,887 | * | 20,170 | * | 51,872 | 3,736 |
| Gedio | 4,481 | * | - | - | - | * | 3,898 | * |
| Wolayita | 49,489 | * | * | - | * | * | 41,980 | * |
| South Omo | 419,357 | * | 93,252 | * | * | * | 252,156 | * |
| Shaka | 3,195 | * | * | - | * | - | 2,989 | * |
| Kaffa | 41,218 | 1,804 | * | 808 | - | - | 38,089 | * |
| Gamo Gofa | 105,014 | 4,073 | * | * | * | * | 85,384 | * |
| Bench-Maji | 24,806 | * | * | - | * | - | 20,688 | * |
| Yem Sp. Wereda | 8,832 | 110 | 256 | * | - | - | 8,388 | * |
| Amaro Sp. Wereda | 20,780 | 891 | 1,923 | * | * | * | 16,841 | * |
| Burji Sp. Wereda | 11,701 | 352 | 1,735 | - | 240 | - | 9,374 | * |
| Konso Sp. Wereda | 64,675 | 12,034 | 6,715 | * | 842 | * | 44,728 | * |
| Dirashe Sp. Wereda | 28,298 | 2,612 | 4,220 | * | * | * | 20,375 | * |
| Dawro | 14,691 | * | 1,087 | - | * | * | 13,135 | * |
| Basketo Sp. Wereda | 1,856 | 167 | * | - | * | * | 1,621 | * |
| Konta Sp. Wereda | 2,739 | * | 201 | - | - | - | 2,429 | * |
| Konta Special | 62,617 | 2,197 | * | - | 4,464 | * | 46,386 | * |
| Alaba Special | 21,002 | 944 | * | * | 1,860 | * | 17,406 | * |
| Harari | 12,431 | 685 | 331 | - | 2,203 | * | 9,128 | * |
| Hundene | 12,431 | 685 | 331 | - | 2,203 | * | 9,128 | * |
| Addis Ababa | 5,002 | 369 | * | - | - | * | 4,337 | * |
| Zone 3 | 3,886 | 345 | * | - | - | - | 3,315 | * |
| Zone 6 | 1,117 | * | * | - | - | * | 1,022 | * |
| Dire Dawa | 60,861 | 2,921 | * | - | 9,254 | * | 44,724 | * |

TABLE 3-10: HORSES AGED 3 YEARS AND OLDER BY SEX, PURPOSE, ZONE, AND REGION

| Geographic Area | HORSES AGED 3 YEARS AND OLDER | | | | | | |
|-------------------|-------------------------------|----------------|---------|--------|----------------|---------|-------|
| | Total | MALE | | | FEMALE | | |
| | | Transportation | Draught | Other | Transportation | Draught | Other |
| Ethiopia | 1,148,616 | 463,621 | 76,064 | 14,187 | 509,675 | 85,068 | * |
| Tigray | 2,136 | 1,540 | - | - | * | * | * |
| North West Tigray | - | - | - | - | - | - | * |
| Central Tigray | - | - | - | - | - | - | * |
| Eastern Tigray | * | * | - | - | - | - | * |
| Southern Tigray | 1,404 | * | - | - | - | * | * |
| Western Tigray | * | * | - | - | * | * | * |
| Afar | - | - | - | - | - | - | * |
| Zone 1 | - | - | - | - | - | - | * |
| Zone 3 | - | - | - | - | - | - | * |
| Amhara | 206,711 | 27,858 | 62,439 | 5,467 | 59,796 | 51,151 | * |
| North Gonder | 32,350 | 5,019 | * | * | 9,954 | * | * |
| South Gonder | 18,615 | 2,972 | * | - | * | * | * |
| North Wolo | 14,221 | 2,177 | * | - | * | * | * |
| South Wolo | 24,621 | 6,133 | * | * | 14,153 | * | * |
| North Shewa | 23,867 | * | * | - | 11,433 | * | * |
| East Gojam | 42,411 | 5,976 | 13,590 | * | 9,781 | 9,309 | * |
| West Gojam | 6,243 | * | * | * | * | * | * |
| Waghamera | * | * | - | - | * | - | * |
| Agewawie | 44,184 | * | 23,669 | * | 2,113 | 15,963 | * |
| Oromia | - | - | - | - | - | - | * |
| Oromia | 702,226 | 330,059 | 6,027 | 5,646 | 341,692 | 18,802 | * |
| West Wellega | * | * | - | - | * | - | * |
| East Welega | 30,779 | 12,365 | * | * | 15,481 | * | * |
| Illubabor | 23,243 | 8,007 | - | * | 14,584 | * | * |
| Jimma | 87,563 | 37,170 | - | - | 49,996 | * | * |
| West Shewa | 98,659 | 47,436 | * | - | 38,366 | * | * |
| North Shewa | 50,979 | 16,929 | * | * | 33,277 | * | * |
| East Shewa | 13,229 | 10,351 | - | - | * | - | * |
| Arsi | 172,354 | 81,835 | - | * | 88,437 | * | * |
| West Harerghe | * | - | - | - | * | - | * |
| East Harerghe | * | - | - | - | * | - | * |
| Bale | 122,350 | 67,019 | - | * | 53,406 | * | * |
| Borena | 3,890 | 2,850 | - | - | * | - | * |
| South West Shewa | 15,129 | 9,895 | * | * | 4,155 | * | * |
| Guji | 78,806 | 33,995 | * | * | 37,034 | * | * |

TABLE 3-10 CONT'D

| Geographic Area | HORSES AGED 3 YEARS AND OLDER | | | | | | |
|-------------------------|-------------------------------|----------------|---------|-------|----------------|---------|-------|
| | Total | MALE | | | FEMALE | | |
| | | Transportation | Draught | Other | Transportation | Draught | Other |
| Somale | * | * | - | - | * | - | * |
| Shinele | - | - | - | - | - | - | * |
| Jijiga | - | - | - | - | - | - | * |
| Liben | * | * | - | - | * | - | * |
| Benshangul-Gumuz | * | - | - | - | * | - | * |
| Metekel | * | - | - | - | * | - | * |
| Asosa | - | - | - | - | - | - | * |
| Kemeshi | - | - | - | - | - | - | * |
| S.N.N.P.R | 236,413 | 103,283 | 7,598 | * | 107,722 | 14,736 | * |
| Gurage | 40,669 | 11,676 | * | - | 24,036 | 4,649 | * |
| Hadiya | 18,234 | 8,277 | - | - | 8,972 | * | * |
| Kembata Tembaro | 7,243 | 2,547 | * | - | 3,465 | * | * |
| Sidama | 53,361 | 22,271 | * | * | 26,524 | * | * |
| Gedio | 18,388 | 11,801 | * | - | 5,885 | * | * |
| Wolayita | * | * | - | - | - | - | * |
| South Omo | 8,399 | 2,358 | 733 | * | 3,565 | 822 | * |
| Shaka | 2,405 | 1,955 | * | * | * | - | * |
| Kaffa | 36,658 | 21,922 | * | * | 13,643 | * | * |
| Gamo Gofa | 18,888 | 6,176 | * | - | 5,160 | 4,718 | * |
| Bench-Maji | 9,073 | 4,430 | - | * | 4,381 | * | * |
| Yem Sp. Wereda | 414 | * | * | - | 252 | * | * |
| Amaro Sp. Wereda | 2,508 | 977 | * | - | 1,184 | * | * |
| Burji Sp. Wereda | * | - | * | - | * | - | * |
| Konso Sp. Wereda | - | - | - | - | - | - | * |
| Dirashe Sp. Wereda | * | * | - | - | - | - | * |
| Dawro | 5,235 | 1,772 | - | * | 3,180 | * | * |
| Basketo Sp. Wereda | 285 | * | * | 165 | * | - | * |
| Konta Sp. Wereda | 889 | 595 | - | - | 294 | - | * |
| Konta Special | 12,106 | 5,218 | - | - | 6,347 | * | * |
| Alaba Special | 1,020 | 604 | - | - | 416 | - | * |
| Harari | - | - | - | - | - | - | * |
| Hundene | - | - | - | - | - | - | * |
| Addis Ababa | 859 | 829 | - | - | * | - | * |
| Zone 3 | 685 | 654 | - | - | * | - | * |
| Zone 6 | 174 | 174 | - | - | - | - | * |
| Dire Dawa | - | - | - | - | - | - | * |

TABLE 3-11: ASSES AGED 3 YEARS AND OLDER BY SEX, PURPOSE, ZONE, AND REGION

| Geographic Area | ASSES AGED 3 YEARS AND OLDER | | | | | | |
|-------------------|------------------------------|----------------|---------|--------|----------------|---------|---------|
| | TOTAL | MALE | | | FEMALE | | |
| | | Transportation | Draught | Other | Transportation | Draught | Other |
| Ethiopia | 2,870,537 | 927,786 | 331,844 | 51,436 | 1,031,643 | 406,664 | 121,164 |
| Tigray | 297,951 | 118,794 | 45,488 | 6,908 | 84,021 | 35,587 | 7,153 |
| North West Tigray | 53,849 | 24,435 | * | - | 25,301 | 2,971 | * |
| Central Tigray | 74,776 | 22,118 | 12,223 | * | 21,540 | 15,615 | * |
| Eastern Tigray | 52,255 | 17,957 | 5,434 | 4,367 | 13,580 | 6,457 | 4,460 |
| Southern Tigray | 89,443 | 39,484 | 17,425 | * | 22,290 | 8,605 | * |
| Western Tigray | 27,628 | 14,799 | 9,580 | - | 1,311 | 1,939 | * |
| Afar | 10,285 | 3,318 | * | * | 6,529 | * | 280 |
| Zone 1 | 1,898 | 538 | - | * | 1,238 | * | * |
| Zone 3 | 8,387 | 2,780 | * | * | 5,291 | - | * |
| Amhara | 970,891 | 219,078 | 130,434 | 15,096 | 304,321 | 233,412 | 68,550 |
| North Gonder | 129,639 | 47,982 | * | * | 41,671 | 23,408 | 4,683 |
| South Gonder | 103,001 | 10,967 | 9,973 | * | 46,893 | 29,357 | * |
| North Wolo | 96,889 | 27,013 | 2,980 | * | 50,961 | 12,039 | * |
| South Wolo | 196,619 | 61,667 | 21,841 | - | 66,759 | 34,091 | 12,261 |
| North Shewa | 160,597 | 45,410 | 21,598 | * | 58,910 | 30,733 | 1,973 |
| East Gojam | 111,350 | 7,251 | 31,910 | * | 11,870 | 49,906 | 9,448 |
| West Gojam | 100,849 | 3,522 | 22,610 | 6,912 | 4,122 | 42,173 | 21,510 |
| Waghamera | 28,134 | 8,740 | 4,051 | - | 7,289 | 5,072 | 2,982 |
| Agewawie | 23,637 | * | * | 3,706 | 2,424 | 5,607 | 6,683 |
| Oromia | 20,175 | 4,723 | 639 | * | 13,421 | 1,025 | * |
| Oromia | 1,245,362 | 434,077 | 130,083 | 23,601 | 488,901 | 128,748 | 39,951 |
| West Wellega | 66,582 | 22,498 | * | * | 29,219 | * | 3,065 |
| East Welega | 72,440 | 23,599 | * | * | 26,514 | * | * |
| Illubabor | 7,959 | 2,603 | * | - | 4,901 | - | * |
| Jimma | 37,021 | 17,443 | * | - | 9,902 | * | 1,579 |
| West Shewa | 68,397 | 21,884 | 2,906 | 4,123 | 23,158 | 7,721 | 8,605 |
| North Shewa | 99,313 | 23,674 | 16,693 | * | 32,343 | 25,750 | * |
| East Shewa | 191,681 | 68,614 | 13,324 | * | 91,021 | * | * |
| Arsi | 192,602 | 60,804 | 18,020 | - | 93,728 | 19,650 | * |
| West Harerghe | 113,523 | 49,180 | 11,038 | 2,211 | 40,469 | 3,957 | * |
| East Harerghe | 119,866 | 47,601 | 23,610 | * | 28,529 | 14,164 | * |
| Bale | 129,920 | 47,241 | 8,613 | * | 61,873 | * | * |
| Borena | 36,764 | 13,701 | * | - | 19,154 | * | * |
| South West Shewa | 72,426 | 21,608 | 15,399 | * | 15,090 | 18,728 | 1,081 |
| Guji | 36,867 | 13,627 | * | * | 13,000 | * | * |

TABLE 3-11 CONT'D

| Geographic Area | ASSES AGED 3 YEARS AND OLDER | | | | | | |
|-------------------------|------------------------------|----------------|---------|-------|----------------|---------|-------|
| | TOTAL | MALE | | | FEMALE | | |
| | | Transportation | Draught | Other | Transportation | Draught | Other |
| Somale | 68,591 | 33,586 | * | 166 | 29,665 | 136 | 670 |
| Shinele | 2,780 | 1,135 | 76 | 113 | 1,170 | 104 | 182 |
| Jijiga | 49,006 | 24,593 | * | - | 19,978 | - | * |
| Liben | 16,804 | 7,858 | * | * | 8,517 | * | * |
| Benshangul-Gumuz | 32,931 | 9,728 | 9,940 | 3,887 | 5,162 | 1,660 | 2,554 |
| Metekel | 16,288 | 1,256 | 8,396 | 3,694 | * | 1,027 | 1,761 |
| Asosa | 13,228 | 6,566 | * | * | 4,574 | * | * |
| Kemeshi | 3,415 | 1,905 | * | * | 434 | * | * |
| S.N.N.P.R | 217,200 | 95,472 | 6,497 | 1,611 | 106,846 | 4,795 | * |
| Gurage | 33,005 | 18,699 | - | - | 14,306 | - | * |
| Hadiya | 30,106 | 8,541 | - | - | 19,889 | * | * |
| Kembata Tembaro | 18,999 | 15,168 | * | - | 3,153 | * | * |
| Sidama | 32,860 | 14,915 | * | - | 16,028 | - | * |
| Gedio | * | * | - | - | - | - | * |
| Wolayita | 22,368 | 13,492 | * | * | * | - | * |
| South Omo | 5,451 | * | * | * | * | * | * |
| Shaka | 905 | * | * | * | - | - | * |
| Kaffa | * | * | - | - | - | - | * |
| Gamo Gofa | 9,544 | 5,397 | * | - | * | - | * |
| Bench-Maji | * | * | - | - | - | - | * |
| Yem Sp. Wereda | 1,752 | 646 | * | * | 746 | * | * |
| Amaro Sp. Wereda | * | * | * | - | * | - | * |
| Burji Sp. Wereda | 2,379 | 966 | 349 | - | 911 | 153 | * |
| Konso Sp. Wereda | 1,679 | 829 | * | - | * | 533 | * |
| Dirashe Sp. Wereda | 6,406 | 1,132 | 3,343 | - | 530 | 1,329 | * |
| Dawro | 2,976 | 1,836 | - | 600 | 540 | - | * |
| Basketo Sp. Wereda | * | * | - | - | * | - | * |
| Konta Sp. Wereda | - | - | - | - | - | - | * |
| Konta Special | 34,828 | 8,271 | * | - | 26,423 | - | * |
| Alaba Special | 11,407 | 1,279 | - | - | 9,675 | * | * |
| Harari | 5,234 | 2,149 | 951 | * | 1,555 | 523 | * |
| Hundene | 5,234 | 2,149 | 951 | * | 1,555 | 523 | * |
| Addis Ababa | 14,608 | 9,048 | 3,407 | * | 1,033 | 1,094 | * |
| Zone 3 | 10,024 | 7,811 | 1,704 | - | 266 | * | * |
| Zone 6 | 4,584 | 1,237 | 1,704 | * | 767 | 850 | * |
| Dire Dawa | 7,486 | 2,535 | 652 | - | 3,610 | 689 | * |

TABLE 3-12: MULES AGED 3 YEARS AND OLDER BY SEX, PURPOSE, ZONE, AND REGION

| Geographic Area | MULES AGED 3 YEARS AND OLDER | | | | | | |
|-------------------|------------------------------|----------------|---------|-------|----------------|---------|-------|
| | TOTAL | MALE | | | FEMALE | | |
| | | Transportation | Draught | Other | Transportation | Draught | Other |
| Ethiopia | 271,461 | 120,804 | 10,552 | 2,937 | 128,950 | 5,503 | 2,716 |
| Tigray | 9,789 | 2,903 | * | - | 6,114 | * | * |
| North West Tigray | 1,218 | * | - | - | 1,049 | - | * |
| Central Tigray | 2,039 | * | - | - | * | * | * |
| Eastern Tigray | 2,035 | * | - | - | 1,261 | - | * |
| Southern Tigray | 3,625 | 771 | - | - | * | - | * |
| Western Tigray | 872 | 400 | * | - | * | * | * |
| Afar | 382 | 235 | - | - | 147 | - | * |
| Zone 1 | - | - | - | - | - | - | * |
| Zone 3 | 382 | 235 | - | - | 147 | - | * |
| Amhara | 70,938 | 20,059 | 7,516 | * | 37,290 | 2,835 | * |
| North Gondar | 9,219 | 3,873 | - | - | 5,346 | - | * |
| South Gondar | 11,324 | 2,262 | * | - | 5,695 | * | * |
| North Wolo | 8,423 | * | - | - | 6,354 | - | * |
| South Wolo | 17,036 | 4,701 | * | - | 11,931 | - | * |
| North Shewa | 7,537 | * | * | - | 2,521 | * | * |
| East Gojam | 5,097 | - | * | * | * | * | * |
| West Gojam | 8,028 | * | * | * | 2,138 | * | * |
| Waghamera | 2,270 | 926 | - | - | 1,249 | * | * |
| Agewawie | 1,910 | * | * | - | * | - | * |
| Oromia | * | * | - | - | - | - | * |
| Oromia | 126,869 | 65,711 | 1,323 | * | 59,180 | * | * |
| West Wellega | 8,121 | 5,145 | - | - | 2,976 | - | * |
| East Welega | 9,385 | 4,697 | - | - | 4,688 | - | * |
| Illubabor | 4,809 | 1,684 | - | - | 3,125 | - | * |
| Jimma | 28,330 | 8,402 | * | - | 19,482 | - | * |
| West Shewa | 3,494 | * | - | - | 2,332 | - | * |
| North Shewa | 3,134 | 1,367 | - | - | 1,768 | - | * |
| East Shewa | 5,594 | 4,909 | - | - | * | * | * |
| Arsi | 21,898 | 14,301 | - | - | 7,596 | - | * |
| West Harerghe | 2,885 | * | - | - | * | - | * |
| East Harerghe | * | * | - | - | - | - | * |
| Bale | 14,596 | 9,747 | - | - | 4,848 | - | * |
| Borena | 4,386 | 2,795 | * | - | 1,295 | - | * |
| South West Shewa | 6,823 | 3,186 | - | - | 3,636 | - | * |
| Guji | 12,731 | 6,675 | * | * | 5,096 | - | * |

TABLE 3-12 CONT'D

| Geographic Area | MULES AGED 3 YEARS AND OLDER | | | | | | |
|-------------------------|------------------------------|----------------|---------|-------|----------------|---------|-------|
| | TOTAL | MALE | | | FEMALE | | |
| | | Transportation | Draught | Other | Transportation | Draught | Other |
| Somale | * | - | - | - | * | - | * |
| Shinele | - | - | - | - | - | - | * |
| Jijiga | - | - | - | - | - | - | * |
| Liben | * | - | - | - | * | - | * |
| Benshangul-Gumuz | 1,521 | 568 | * | * | 691 | - | * |
| Metekel | 1,304 | 513 | * | * | 529 | - | * |
| Asosa | * | - | - | - | * | - | * |
| Kemeshi | 147 | * | - | - | * | - | * |
| S.N.N.P.R | 61,230 | 30,745 | 1,503 | * | 25,436 | * | 485 |
| Gurage | 5,688 | 2,882 | - | - | 2,805 | - | * |
| Hadiya | 12,084 | 6,103 | - | - | 5,982 | - | * |
| Kembata Tembaro | 1,987 | 792 | * | - | 784 | - | * |
| Sidama | * | * | - | - | * | - | * |
| Gedio | 3,261 | 1,954 | - | - | 1,306 | - | * |
| Wolayita | 2,840 | 1,990 | - | - | * | - | * |
| South Omo | 2,656 | 892 | * | * | 1,403 | * | * |
| Shaka | * | * | - | - | * | - | * |
| Kaffa | 8,135 | 5,648 | * | - | 1,931 | - | * |
| Gamo Gofa | 7,008 | 2,491 | * | - | 2,421 | * | * |
| Bench-Maji | 2,156 | * | - | - | 1,769 | - | * |
| Yem Sp. Wereda | 137 | * | - | - | 115 | - | * |
| Amaro Sp. Wereda | 816 | 422 | - | - | 345 | * | * |
| Burji Sp. Wereda | 92 | * | - | - | 71 | - | * |
| Konso Sp. Wereda | - | - | - | - | - | - | * |
| Dirashe Sp. Wereda | * | * | - | - | - | - | * |
| Dawro | 3,991 | 1,847 | - | * | 1,217 | - | * |
| Basketo Sp. Wereda | 369 | * | * | 143 | 93 | - | 80 |
| Konta Sp. Wereda | 752 | 485 | - | - | 267 | - | * |
| Konta Special | 4,070 | 2,038 | - | * | 1,668 | - | * |
| Alaba Special | 701 | 409 | - | - | 292 | - | * |
| Harari | - | - | - | - | - | - | * |
| Hundene | - | - | - | - | - | - | * |
| Addis Ababa | 603 | 553 | * | - | * | - | * |
| Zone 3 | * | * | - | - | - | - | * |
| Zone 6 | 331 | 281 | * | - | * | - | * |
| Dire Dawa | * | * | * | - | - | - | * |

TABLE 3-13 CONT'D

| Geographic Area | CAMELS AGED 4 YEARS AND OLDER | | | | | | | | | |
|-------------------------|-------------------------------|----------------|------|---------|-------|----------------|------|---------|--------|--------|
| | TOTAL | MALE | | | | FEMALE | | | | |
| | | Transportation | Meat | Draught | Other | Transportation | Meat | Draught | Milk | Others |
| Somale | 120,860 | 25,761 | * | * | * | 4,011 | * | - | 52,434 | * |
| Shinele | 4,961 | 1,836 | 64 | - | 19 | 146 | - | - | 2,815 | 82 |
| Jijiga | 22,832 | 11,972 | * | * | * | * | - | - | * | * |
| Liben | 93,066 | 11,953 | * | - | * | 1,576 | * | - | 43,196 | * |
| Benshangul-Gumuz | - | - | - | - | - | - | - | - | - | * |
| Metekel | - | - | - | - | - | - | - | - | - | * |
| Asosa | - | - | - | - | - | - | - | - | - | * |
| Kemeshi | - | - | - | - | - | - | - | - | - | * |
| S.N.N.P.R | * | - | - | - | * | - | - | - | - | * |
| Gurage | - | - | - | - | - | - | - | - | - | * |
| Hadiya | - | - | - | - | - | - | - | - | - | * |
| Kembata Tembaro | - | - | - | - | - | - | - | - | - | * |
| Sidama | - | - | - | - | - | - | - | - | - | * |
| Gedio | - | - | - | - | - | - | - | - | - | * |
| Wolayita | - | - | - | - | - | - | - | - | - | * |
| South Omo | * | - | - | - | * | - | - | - | - | * |
| Shaka | - | - | - | - | - | - | - | - | - | * |
| Kaffa | - | - | - | - | - | - | - | - | - | * |
| Gamo Gofa | - | - | - | - | - | - | - | - | - | * |
| Bench-Maji | - | - | - | - | - | - | - | - | - | * |
| Yem Sp. Wereda | - | - | - | - | - | - | - | - | - | * |
| Amaro Sp. Wereda | - | - | - | - | - | - | - | - | - | * |
| Burji Sp. Wereda | - | - | - | - | - | - | - | - | - | * |
| Konso Sp. Wereda | - | - | - | - | - | - | - | - | - | * |
| Dirashe Sp. Wereda | - | - | - | - | - | - | - | - | - | * |
| Dawro | - | - | - | - | - | - | - | - | - | * |
| Basketo Sp. Wereda | - | - | - | - | - | - | - | - | - | * |
| Konta Sp. Wereda | - | - | - | - | - | - | - | - | - | * |
| Konta Special | - | - | - | - | - | - | - | - | - | * |
| Alaba Special | - | - | - | - | - | - | - | - | - | * |
| Harari | * | * | * | - | - | * | - | * | * | * |
| Hundene | * | * | * | - | - | * | - | * | * | * |
| Addis Ababa | - | - | - | - | - | - | - | - | - | * |
| Zone 3 | - | - | - | - | - | - | - | - | - | * |
| Zone 6 | - | - | - | - | - | - | - | - | - | * |
| Dire Dawa | 5,742 | 2,626 | * | * | * | * | - | * | 2,043 | * |

TABLE 3-14: POULTRY INVENTORY BY TYPE, ZONE, AND REGION

| Geographic Area | Total Poultry | Cocks | Cockerels | Pullets | Non-Laying Hens | Chicks | Laying Hens |
|-------------------|---------------|-----------|-----------|-----------|-----------------|------------|-------------|
| Ethiopia | 35,656,385 | 3,054,730 | 2,268,705 | 3,473,259 | 1,294,577 | 15,959,783 | 9,605,331 |
| Tigray | 3,725,111 | 276,409 | 288,938 | 436,586 | 218,848 | 1,644,603 | 859,726 |
| North West Tigray | 951,892 | 61,480 | 84,645 | 120,826 | 56,264 | 442,128 | 186,549 |
| Central Tigray | 1,170,285 | 82,853 | 92,182 | 150,723 | 40,075 | 517,386 | 287,065 |
| Eastern Tigray | 411,602 | 45,180 | 27,240 | 32,760 | 28,348 | 121,923 | 156,152 |
| Southern Tigray | 656,997 | 50,451 | 45,470 | 73,511 | 52,541 | 290,619 | 144,404 |
| Western Tigray | 534,335 | 36,446 | 39,400 | 58,766 | 41,619 | 272,547 | 85,557 |
| Afar | 49,285 | 5,471 | 2,446 | 4,073 | 3,169 | 20,862 | 13,264 |
| Zone 1 | 1,343 | 223 | * | 197 | * | * | 368 |
| Zone 3 | 47,942 | 5,248 | 2,391 | 3,876 | 3,075 | 20,456 | 12,896 |
| Amhara | 11,243,773 | 960,894 | 556,999 | 914,636 | 391,835 | 5,580,664 | 2,838,747 |
| North Gonder | 2,497,880 | 140,672 | 142,123 | 219,581 | 99,766 | 1,426,509 | 469,230 |
| South Gonder | 1,257,047 | 53,445 | 93,592 | 106,911 | 38,396 | 668,195 | 296,510 |
| North Wolo | 1,102,246 | 177,246 | 39,973 | 93,479 | 29,088 | 484,944 | 277,516 |
| South Wolo | 1,835,430 | 297,452 | 94,221 | 144,862 | 85,168 | 672,307 | 541,420 |
| North Shewa | 1,241,219 | 118,189 | 48,333 | 82,545 | 29,530 | 501,951 | 460,671 |
| East Gojam | 680,805 | 36,703 | 29,415 | 68,783 | 23,177 | 271,985 | 250,742 |
| West Gojam | 1,554,778 | 71,397 | 45,977 | 99,315 | 59,976 | 975,973 | 302,140 |
| Waghamera | 210,172 | 14,850 | 13,700 | 23,222 | 4,902 | 105,111 | 48,387 |
| Agewawie | 580,755 | 25,840 | 37,355 | 51,860 | 16,657 | 318,137 | 130,905 |
| Oromia | 283,441 | 25,101 | 12,309 | 24,078 | 5,174 | 155,552 | 61,226 |
| Oromia | 12,761,341 | 1,128,826 | 805,757 | 1,176,931 | 491,695 | 5,488,463 | 3,669,670 |
| West Wellega | 1,355,853 | 114,716 | 83,513 | 113,395 | 56,243 | 677,818 | 310,169 |
| East Welega | 991,945 | 77,528 | 66,800 | 97,779 | 53,123 | 492,383 | 204,331 |
| Illubabor | 823,774 | 62,318 | 50,710 | 66,506 | 23,464 | 398,032 | 222,744 |
| Jimma | 1,545,644 | 118,474 | 102,268 | 145,363 | 43,557 | 700,048 | 435,934 |
| West Shewa | 962,426 | 67,102 | 67,549 | 82,908 | 36,846 | 465,235 | 242,787 |
| North Shewa | 622,974 | 45,742 | 31,818 | 42,660 | 36,069 | 211,388 | 255,296 |
| East Shewa | 1,239,484 | 108,567 | 95,691 | 122,212 | 50,739 | 509,306 | 352,968 |
| Arsi | 1,308,172 | 121,282 | 55,702 | 109,556 | 56,956 | 534,828 | 429,848 |
| West Harerghe | 929,057 | 102,581 | 57,484 | 85,767 | 33,256 | 400,331 | 249,639 |
| East Harerghe | 1,001,395 | 119,984 | 51,525 | 76,196 | 42,491 | 332,997 | 378,202 |
| Bale | 532,256 | 46,913 | 31,473 | 57,936 | 13,352 | 201,565 | 181,017 |
| Borena | 412,825 | 46,997 | 37,220 | 60,708 | 9,361 | 136,919 | 121,621 |
| South West Shewa | 514,731 | 30,922 | 27,387 | 48,911 | 14,956 | 232,360 | 160,194 |
| Guji | 520,804 | 65,702 | 46,617 | 67,034 | 21,282 | 195,251 | 124,918 |

TABLE 3-14 CONT'D

| Geographic Area | Total Poultry | Cocks | Cockerels | Pullets | Non-Laying Hens | Chicks | Laying Hens |
|-------------------------|---------------|---------|-----------|---------|-----------------|----------|-------------|
| Somale | 173,187 | 24,279 | 11,314 | 16,202 | 10,918 | 49,010 | 61,464 |
| Shinele | 6,625 | 698 | 399 | 552 | 347 | 2,189 | 2,439 |
| Jijiga | 117,387 | 17,866 | 8,829 | 11,505 | 8,047 | 29,603 | 41,536 |
| Liben | 49,176 | 5,715 | 2,085 | 4,145 | 2,524 | 17,218 | 17,488 |
| Benshangul-Gumuz | 785,357 | 58,954 | 57,395 | 83,637 | 26,844 | 387,769 | 170,758 |
| Metekel | 310,417 | 23,123 | 25,642 | 34,483 | 11,257 | 155,089 | 60,822 |
| Asosa | 347,656 | 26,387 | 23,211 | 34,300 | 10,668 | 165,016 | 88,075 |
| Kemeshi | 127,284 | 9,444 | 8,542 | 14,855 | 4,919 | 67,664 | 21,861 |
| S.N.N.P.R | 6,779,900 | 585,471 | 537,822 | 828,229 | 146,983 | 2,745,54 | 1,935,85 |
| Gurage | 529,856 | 50,172 | 23,577 | 52,198 | 8,176 | 202,199 | 193,534 |
| Hadiya | 940,491 | 49,825 | 68,899 | 118,551 | 5,476 | 504,976 | 192,764 |
| Kembata Tembaro | 305,863 | 15,550 | 25,650 | 37,073 | 1,777 | 136,631 | 89,181 |
| Sidama | 1,012,428 | 79,441 | 87,427 | 132,875 | 17,720 | 398,694 | 296,272 |
| Gedio | 208,479 | 19,348 | 15,259 | 27,248 | 1,851 | 85,983 | 58,791 |
| Wolayita | 653,380 | 58,828 | 78,992 | 96,213 | 31,683 | 197,446 | 190,218 |
| South Omo | 303,706 | 39,151 | 28,284 | 38,897 | 7,954 | 105,731 | 83,689 |
| Shaka | 133,058 | 9,485 | 10,091 | 15,337 | 3,715 | 60,122 | 34,309 |
| Kaffa | 591,667 | 64,198 | 41,517 | 63,536 | 7,001 | 234,051 | 181,364 |
| Gamo Gofa | 446,640 | 45,847 | 31,353 | 62,222 | 8,769 | 144,026 | 154,422 |
| Bench-Maji | 465,486 | 46,723 | 38,070 | 43,737 | 25,957 | 190,150 | 120,850 |
| Yem Sp. Wereda | 30,521 | 1,746 | 1,408 | 2,151 | 593 | 14,515 | 10,108 |
| Amaro Sp. Wereda | 58,137 | 6,585 | 5,039 | 7,341 | 569 | 22,338 | 16,264 |
| Burji Sp. Wereda | 19,790 | 3,169 | 1,601 | 3,128 | 335 | 5,376 | 6,182 |
| Konso Sp. Wereda | 87,141 | 12,665 | 7,099 | 10,598 | 5,662 | 23,913 | 27,204 |
| Dirashe Sp. Wereda | 73,305 | 12,193 | 5,660 | 8,268 | 3,771 | 21,410 | 22,003 |
| Dawro | 138,172 | 14,496 | 12,791 | 17,208 | 6,458 | 40,296 | 46,923 |
| Basketo Sp. Wereda | 27,274 | 3,067 | 2,929 | 3,880 | 1,066 | 9,344 | 6,987 |
| Konta Sp. Wereda | 54,263 | 5,723 | 4,397 | 5,329 | 2,535 | 21,901 | 14,378 |
| Konta Special | 578,657 | 39,541 | 39,607 | 71,150 | 4,844 | 262,136 | 161,380 |
| Alaba Special | 121,585 | 7,717 | 8,170 | 11,288 | 1,074 | 64,306 | 29,030 |
| Harari | 31,590 | 3,921 | 2,872 | 4,294 | 1,478 | 8,759 | 10,265 |
| Hundene | 31,590 | 3,921 | 2,872 | 4,294 | 1,478 | 8,759 | 10,265 |
| Addis Ababa | 62,364 | 5,577 | 3,512 | 4,815 | 1,599 | 21,899 | 24,962 |
| Zone 3 | 40,031 | 3,844 | 1,933 | 2,533 | 1,293 | 14,302 | 16,125 |
| Zone 6 | 22,333 | 1,733 | 1,579 | 2,282* | | 7,596 | 8,837 |
| Dire Dawa | 44,479 | 4,928 | 1,651 | 3,857 | 1,209 | 12,213 | 20,622 |

TABLE 3-15: BEEHIVE INVENTORY AND PRODUCTION OF HONEY BY TYPE, ZONE, AND REGION

| Geographic Area | All Beehives | | Traditional Beehives | | | Intermediate Beehives | | | Modern Beehives | | |
|-------------------|-----------------|-------------------------------|----------------------|------------------------------|-------------------------------|-----------------------|------------------------------|-------------------------------|-----------------|------------------------------|-------------------------------|
| | Number of hives | Total annual honey production | Number of hives | Avg. frequency of production | Total annual honey production | Number of hives | Avg. frequency of production | Total annual honey production | Number of hives | Avg. frequency of production | Total annual honey production |
| Ethiopia | 4,228,612 | 25,186,378 | 4,205,824 | 1 | 25,078,551 | 15,341 | 1 | * | 7,448 | 2 | 107,827 |
| Tigray | 173,948 | 1,376,956 | 171,522 | 1 | 1,345,829 | 923 | * | * | 1,503 | 2 | 31,127 |
| North West Tigray | 31,729 | 358,569 | 30,304 | 1 | 358,569 | 758 | * | * | 666 | * | * |
| Central Tigray | 45,608 | 541,124 | 45,140 | 1 | 541,124 | - | - | - | 468 | * | * |
| Eastern Tigray | 40,271 | 472,034 | 39,950 | 2 | 472,034 | 165 | - | - | 156 | * | * |
| Southern Tigray | 39,607 | 310,054 | 39,395 | 1 | 310,054 | - | - | - | 212 | * | * |
| Western Tigray | 16,733 | 348,748 | 16,733 | 2 | 348,748 | - | - | - | * | - | - |
| Afar | 674 | 2,325 | 436 | 2 | 2,325 | 238 | - | - | * | - | - |
| Zone 1 | - | - | - | - | - | - | - | - | * | - | - |
| Zone 3 | 674 | 4,650 | 436 | 2 | 4,650 | 238 | - | - | * | - | - |
| Amhara | 766,383 | 5,831,444 | 758,761 | 1 | 5,831,444 | 6,680 | * | * | 942 | * | * |
| North Gonder | 109,015 | 1,155,707 | 108,638 | 2 | 1,155,707 | - | - | - | 377 | * | * |
| South Gonder | 107,000 | 913,224 | 107,000 | 1 | 913,224 | - | - | - | * | - | - |
| North Wolo | 61,997 | 580,642 | 61,219 | 1 | 580,642 | 778 | * | * | * | - | - |
| South Wolo | 109,366 | 899,639 | 106,982 | 2 | 899,639 | 2,384 | - | - | * | - | - |
| North Shewa | 47,845 | 398,316 | 44,875 | 2 | 398,316 | 2,970 | - | - | * | - | - |
| East Gojam | 60,279 | 802,288 | 59,912 | 2 | 802,288 | 367 | - | - | * | - | - |
| West Gojam | 149,011 | 2,731,081 | 149,011 | 1 | 2,731,081 | - | - | - | * | - | - |
| Waghamera | 39,535 | 358,684 | 39,535 | 1 | 358,684 | - | - | - | * | - | - |
| Agewawie | 70,788 | 1,333,835 | 70,041 | 1 | 1,333,835 | 181 | - | - | 566 | * | * |
| Oromia | 11,548 | 144,520 | 11,548 | 1 | 144,520 | - | - | - | * | - | - |
| Oromia | 2,289,877 | 11,703,817 | 2,280,900 | 1 | 11,669,081 | 5,543 | * | * | 3,435 | 2 | 34,736 |
| West Wellega | 593,766 | 3,946,935 | 593,766 | 1 | 3,946,935 | - | - | - | * | - | - |
| East Welega | 190,373 | 1,191,836 | 190,373 | 1 | 1,191,836 | - | * | - | * | - | - |
| Illubabor | 551,474 | 4,114,318 | 549,973 | 1 | 4,114,318 | - | - | - | 1,501 | * | * |
| Jimma | 360,914 | 2,160,934 | 358,260 | 1 | 2,160,934 | 926 | - | - | 1,728 | * | * |
| West Shewa | 61,765 | 585,793 | 61,765 | 1 | 585,793 | - | - | - | * | - | - |
| North Shewa | 34,852 | 276,057 | 34,852 | 2 | 276,057 | - | - | - | * | - | - |
| East Shewa | 32,029 | 167,609 | 32,029 | 2 | 167,609 | - | - | - | * | - | - |
| Arsi | 77,046 | 120,504 | 73,962 | 1 | 120,504 | 3,085 | - | - | * | - | - |
| West Harerghe | 42,244 | 627,698 | 42,244 | 1 | 627,698 | - | - | - | * | - | - |
| East Harerghe | 47,467 | 445,390 | 47,467 | 1 | 445,390 | - | * | * | * | - | - |
| Bale | 109,414 | 1,127,614 | 109,047 | 1 | 1,127,614 | 367 | - | - | * | - | - |
| Borena | 36,245 | 351,387 | 36,245 | 2 | 351,387 | - | - | - | * | - | - |
| South West Shewa | 28,277 | 264,058 | 28,277 | 2 | 264,058 | - | - | - | * | - | - |
| Guji | 124,010 | 872,434 | 122,638 | 1 | 872,434 | 1,166 | - | - | 206 | * | * |

TABLE 3-15 CONT'D

| Geographic Area | All Beehives | | Traditional Beehives | | | Intermediate Beehives | | | Modern Beehives | | |
|-------------------------|-----------------|-------------------------------|----------------------|------------------------------|-------------------------------|-----------------------|------------------------------|-------------------------------|-----------------|------------------------------|-------------------------------|
| | Number of hives | Total annual honey production | Number of hives | Avg. frequency of production | Total annual honey production | Number of hives | Avg. frequency of production | Total annual honey production | Number of hives | Avg. frequency of production | Total annual honey production |
| Somale | 9,186 | 80,663 | 9,186 | 2 | 80,663 | - | - | - | * | - | - |
| Shinele | 29 | 117 | 29 | 1 | 117 | - | - | - | * | - | - |
| Jijiga | 9,157 | 161,209 | 9,157 | 2 | 161,209 | - | - | - | * | - | - |
| Liben | - | - | - | - | - | - | - | - | * | - | - |
| Benshangul-Gumuz | 156,409 | 713,394 | 155,638 | 1 | 713,394 | 474 | - | - | 297 | * | * |
| Metekel | 95,353 | 828,670 | 94,879 | 1 | 828,670 | 474 | - | - | * | - | - |
| Asosa | 50,432 | 214,130 | 50,134 | 1 | 214,130 | - | - | - | 297 | * | * |
| Kemeshi | 10,624 | 62,691 | 10,624 | 1 | 62,691 | - | - | - | * | - | - |
| S.N.N.P.R | 829,795 | 5,425,515 | 827,194 | 2 | 5,425,515 | 1,331 | * | * | 1,270 | * | * |
| Gurage | 28,161 | 211,125 | 27,894 | 2 | 211,125 | - | - | - | 267 | * | * |
| Hadiya | 39,810 | 638,976 | 39,810 | 2 | 638,976 | - | - | - | * | - | - |
| Kembata Tembaro | 18,514 | 196,825 | 18,514 | 2 | 196,825 | - | - | - | * | - | - |
| Sidama | 35,164 | 271,924 | 35,164 | 1 | 271,924 | - | - | - | * | - | - |
| Gedio | 30,937 | 136,261 | 30,937 | 1 | 136,261 | - | - | - | * | - | - |
| Wolayita | 27,844 | * | 27,290 | 2 | * | 277 | * | * | 277 | * | * |
| South Omo | 89,403 | 1,438,370 | 89,403 | 2 | 1,438,370 | - | - | - | * | - | - |
| Shaka | 84,141 | 906,710 | 84,141 | 1 | 906,710 | - | - | - | * | - | - |
| Kaffa | 267,360 | 2,304,132 | 267,360 | 1 | 2,304,132 | - | - | - | * | - | - |
| Gamo Gofa | 70,106 | 521,296 | 69,327 | 1 | 521,296 | 260 | * | * | 519 | * | * |
| Bench-Maji | 26,667 | 308,592 | 26,667 | 2 | 308,592 | - | - | - | * | - | - |
| Yem Sp. Wereda | 5,281 | 68,595 | 5,102 | 2 | 68,595 | 155 | * | * | 24 | * | * |
| Amaro Sp. Wereda | 4,046 | 32,976 | 4,046 | 1 | 32,976 | - | - | - | * | - | - |
| Burji Sp. Wereda | 1,938 | 47,311 | 1,938 | 2 | 47,311 | - | - | - | * | - | - |
| Konso Sp. Wereda | 15,293 | 182,980 | 15,000 | 2 | 182,980 | 292 | - | - | * | - | - |
| Dirashe Sp. Wereda | 6,842 | 135,630 | 6,690 | 1 | 135,630 | 151 | - | - | * | - | - |
| Dawro | 46,351 | 57,456 | 46,351 | 1 | 57,456 | - | - | - | * | - | - |
| Basketo Sp. Wereda | 2,176 | 22,258 | 2,176 | 1 | 22,258 | - | - | - | * | - | - |
| Konta Sp. Wereda | 9,317 | 116,914 | 9,317 | 1 | 116,914 | - | - | - | * | - | - |
| Konta Special | 17,206 | 252,174 | 16,827 | 2 | 252,174 | 196 | * | * | 183 | * | * |
| Alaba Special | 3,239 | 44,025 | 3,239 | 2 | 44,025 | - | - | - | * | - | - |
| Harari | 977 | 6,335 | 951 | 2 | 6,335 | 26 | * | * | * | - | - |
| Hundene | 977 | 12,670 | 951 | 2 | 12,670 | 26 | * | * | * | - | - |
| Addis Ababa | 692 | 1,804 | 566 | 2 | 1,804 | 126 | * | * | * | - | - |
| Zone 3 | 354 | 779 | 228 | 2 | 779 | 126 | * | * | * | - | - |
| Zone 6 | 338 | 1,694 | 338 | 2 | 1,694 | - | - | - | * | - | - |
| Dire Dawa | 670 | 2,161 | 670 | 1 | 2,161 | - | - | - | * | - | - |

TABLE 3-16: NUMBER OF DAIRY ANIMALS, MILK PRODUCTION, AND LACTATION PERIOD BY ZONE AND REGION

| Geographic Area | Number Of Dairy Cows | Number Of Milking Cows | Average Daily Milk Prod. | Average Lactation Period (Mn) | Total Milk Production (Lt) | Number Of Dairy Camels | Number Of Milking Camels | Average Daily Milk Prod. | Average Lactation Period (Mn) | Total Milk Production (Lt) |
|-------------------|----------------------|------------------------|--------------------------|-------------------------------|----------------------------|------------------------|--------------------------|--------------------------|-------------------------------|----------------------------|
| Ethiopia | 7,086,577 | 8,712,548 | 1.324 | 7 | 2,431,148,647 | 158,213 | 148,362 | 4.182 | 10 | 217,494,663 |
| Tigray | 138,935 | 458,615 | 1.308 | 7 | 137,461,724 | - | * | * | * | - |
| North West Tigray | 29,120 | 138,734 | 1.424 | 7 | 103,124,911 | - | * | * | - | - |
| Central Tigray | 37,852 | 102,939 | 0.957 | 6 | 33,659,248 | - | * | - | - | - |
| Eastern Tigray | 26,172 | 64,893 | 1.236 | 7 | 29,752,458 | - | * | * | - | - |
| Southern Tigray | * | 64,034 | 1.538 | 7 | 42,842,765 | - | * | - | - | - |
| Western Tigray | * | 88,015 | 1.559 | 6 | 54,053,560 | - | * | * | * | - |
| Afar | 115,597 | 96,995 | 2.29 | 6 | 44,038,503 | 61,682 | 65,549 | 4.89 | 10 | * |
| Zone 1 | 40,885 | 32,090 | 2.753 | 6 | 35,963,371 | 5,874 | * | 7.252 | 10 | 8,627,877 |
| Zone 3 | 74,712 | 64,904 | 2.011 | 6 | 52,113,635 | 55,808 | 36,956 | 4.273 | 10 | 92,478,806 |
| Amhara | 654,102 | 1,835,603 | 1.362 | 6 | 426,443,600 | - | * | * | - | - |
| North Gonder | 180,935 | 349,820 | 1.146 | 7 | 162,031,661 | - | * | * | - | - |
| South Gonder | 70,967 | 207,337 | 0.927 | 6 | 76,744,221 | - | * | - | - | - |
| North Wolo | 64,572 | 167,627 | 1.386 | 6 | 81,017,890 | - | * | - | - | - |
| South Wolo | 101,799 | 263,636 | 1.438 | 6 | 137,387,414 | - | * | * | - | - |
| North Shewa | 29,722 | 162,552 | 0.272 | 5 | 75,711,449 | - | * | * | - | - |
| East Gojam | 53,382 | 182,107 | 0.872 | 7 | 61,835,774 | - | * | - | - | - |
| West Gojam | 84,760 | 251,518 | 0.877 | 7 | 91,350,588 | - | * | - | - | - |
| Waghamera | 28,390 | 43,715 | 1.111 | 6 | 16,632,274 | - | * | - | - | - |
| Agewawie | 9,575 | 134,390 | 1.083 | 7 | 58,575,905 | - | * | - | - | - |
| Oromia | 29,998 | 72,901 | 1.046 | 6 | 29,236,194 | - | * | - | - | - |
| Oromia | 3,583,905 | 4,022,286 | 1.321 | 7 | 1,179,114,839 | 41,080 | 48,239 | 4.747 | 10 | 39,315,620 |
| West Wellega | 257,504 | 287,178 | 1.128 | 7 | 116,557,845 | - | * | - | - | - |
| East Welega | 165,101 | 277,555 | 1.057 | 7 | 129,249,329 | - | * | - | - | - |
| Illubabor | 118,197 | 184,017 | 1.137 | 6 | 80,907,945 | - | * | - | - | - |
| Jimma | 379,359 | 425,507 | 1.133 | 6 | 180,148,294 | - | * | - | - | - |
| West Shewa | 367,863 | 351,533 | 1.182 | 7 | 180,364,465 | - | * | - | - | - |
| North Shewa | 234,825 | 265,790 | 1.426 | 8 | 206,272,431 | - | * | * | - | - |
| East Shewa | 225,802 | 258,368 | 1.173 | 7 | 142,238,747 | * | * | 2.2 | 5 | 1,575,600 |
| Arsi | 449,682 | 489,634 | 1.435 | 7 | 305,880,839 | - | * | - | - | - |
| West Harerghe | 119,994 | 164,109 | 1.459 | 6 | 100,075,896 | 6,905 | 9,518 | 1.291 | 9 | 13,562,473 |
| East Harerghe | 233,939 | 234,253 | 1.725 | 7 | 158,873,924 | * | * | 1.25 | 10 | 735,408 |
| Bale | 496,474 | 460,258 | 1.167 | 7 | 219,339,800 | * | * | 2.385 | 11 | 7,005,355 |
| Borena | 183,463 | 270,552 | 1.38 | 7 | 142,074,546 | 10,684 | 15,591 | 3.537 | 9 | 24,514,701 |
| South West Shewa | 136,680 | 110,625 | 1.079 | 6 | 45,972,624 | - | * | - | - | - |
| Guji | 215,021 | 242,906 | 1.145 | 8 | 139,216,030 | * | * | 3.696 | * | * |

TABLE 3-16 CONT'D

| Geographic Area | Number Of Dairy Cows | Number Of Milking Cows | Average Daily Milk Prod. | Average Lactation Period (Mn) | Total Milk Production (Lt) | Number Of Dairy Camels | Number Of Milking Camels | Average Daily Milk Prod. | Average Lactation Period (Mn) | Total Milk Production (Lt) |
|-------------------------|----------------------|------------------------|--------------------------|-------------------------------|----------------------------|------------------------|--------------------------|--------------------------|-------------------------------|----------------------------|
| Somale | 81,721 | 108,913 | 1.811 | 6 | 42,888,125 | 52,434 | 31,451 | 3.599 | 9 | 35,431,547 |
| Shinele | 6,816 | 4,098 | 1.695 | 6 | 2,560,655 | 2,815 | 1,321 | 2.981 | 10 | 1,982,316 |
| Jijiga | 30,900 | 61,492 | 1.713 | 6 | 45,827,750 | * | 4,229 | 2.891 | 9 | 3,388,817 |
| Liben | 44,004 | 43,322 | 2.053 | 7 | 37,387,845 | 43,196 | 25,901 | 3.868 | 10 | 62,103,144 |
| Benshangul-Gumuz | 26,175 | 68,014 | 1.196 | 7 | 17,188,858 | - | * | * | - | - |
| Metekel | 3,947 | 45,226 | 1.093 | 7 | 20,027,449 | - | * | - | - | - |
| Asosa | 17,358 | 14,339 | 1.287 | 7 | 7,418,511 | - | * | - | - | - |
| Kemeshi | 4,870 | 8,449 | 1.444 | 6 | 4,037,633 | - | * | * | - | - |
| S.N.N.P.R | 2,446,775 | 2,091,611 | 1.259 | 7 | 573,033,327 | - | * | * | * | - |
| Gurage | 314,398 | 236,163 | 0.857 | 7 | 83,312,993 | - | * | - | - | - |
| Hadiya | 186,590 | 187,514 | 1.07 | 7 | 84,697,548 | - | * | - | - | - |
| Kembata Tembaro | 89,388 | 89,131 | 1.358 | 7 | 52,489,933 | - | * | - | - | - |
| Sidama | 578,277 | 451,146 | 1.272 | 7 | 248,554,216 | - | * | - | - | - |
| Gedio | 25,529 | 22,717 | 0.423 | 6 | 3,059,103 | - | * | - | - | - |
| Wolayita | 218,672 | 196,184 | 1.451 | 8 | 148,582,168 | - | * | - | - | - |
| South Omo | 153,799 | 113,521 | 1.457 | 7 | 89,494,000 | - | * | - | - | - |
| Shaka | 22,138 | 23,466 | 1.554 | 6 | 12,494,509 | - | * | - | - | - |
| Kaffa | 157,060 | 163,269 | 1.46 | 6 | 87,890,549 | - | * | - | - | - |
| Gamo Gofa | 241,924 | 218,914 | 1.194 | 6 | 97,263,718 | - | * | - | - | - |
| Bench-Maji | 122,621 | 108,010 | 1.727 | 7 | 77,847,814 | - | * | * | * | - |
| Yem Sp. Wereda | 10,817 | 9,511 | 0.899 | 7 | 3,566,252 | - | * | * | * | - |
| Amaro Sp. Wereda | 18,192 | 17,724 | 0.883 | 6 | 5,353,105 | - | * | - | - | - |
| Burji Sp. Wereda | 7,381 | 5,812 | 0.886 | 6 | 1,691,444 | - | * | - | - | - |
| Konso Sp. Wereda | 16,757 | 14,517 | 0.931 | 8 | 7,013,018 | - | * | - | - | - |
| Dirashe Sp. Wereda | 13,393 | 9,832 | 1.131 | 7 | 4,857,934 | - | * | - | - | - |
| Dawro | 104,888 | 70,960 | 1.162 | 7 | 35,884,455 | - | * | - | - | - |
| Basketo Sp. Wereda | 6,446 | 5,345 | 0.993 | 7 | 2,001,477 | - | * | - | - | - |
| Konta Sp. Wereda | 17,267 | 15,378 | 1.257 | 6 | 7,548,865 | - | * | - | - | - |
| Konta Special | 113,293 | 103,432 | 1.004 | 6 | 42,432,960 | - | * | - | - | - |
| Alaba Special | 27,946 | 29,066 | 1.034 | 7 | 12,461,567 | - | * | - | - | - |
| Harari | 8,177 | 8,527 | 1.814 | 6 | 2,947,857 | * | * | 3.746 | 11 | * |
| Hundene | 8,177 | 8,527 | 1.814 | 6 | 5,895,714 | * | * | 3.746 | 11 | * |
| Addis Ababa | 13,851 | 11,435 | 1.881 | 7 | 5,213,738 | - | * | - | - | - |
| Zone 3 | 10,795 | 8,645 | 1.862 | 8 | 8,110,431 | - | * | - | - | - |
| Zone 6 | 3,055 | 2,790 | 1.938 | 6 | 2,317,044 | - | * | - | - | - |
| Dire Dawa | 17,340 | 10,550 | 1.518 | 6 | 2,818,076 | 2,043 | 1,579 | 2.632 | 10 | 929,890 |

TABLE 3-17 TOTAL EGG PRODUCTION BY ZONE, AND REGION

| Geographic Area | Total Laying Hens | Average Number of Clutches /Anum | Average Number of Days /Clutch | Average Number of Eggs /Hen /Clutch | Total Egg Production (Number) |
|-------------------|-------------------|----------------------------------|--------------------------------|-------------------------------------|-------------------------------|
| Ethiopia | 9,605,331 | 5 | 20 | 12 | 63,523,379 |
| Tigray | 859,726 | 5 | 21 | 13 | 6,664,608 |
| North West Tigray | 186,549 | 4 | 17 | 12 | 1,885,125 |
| Central Tigray | 287,065 | 5 | 21 | 14 | 5,207,199 |
| Eastern Tigray | 156,152 | 8 | 24 | 12 | 3,051,113 |
| Southern Tigray | 144,404 | 5 | 24 | 15 | 2,414,033 |
| Western Tigray | 85,557 | 3 | 17 | 12 | 771,745 |
| Afar | 13,264 | 4 | 19 | 11 | 69,789 |
| Zone 1 | 368 | 4 | 20 | 12 | * |
| Zone 3 | 12,896 | 4 | 19 | 11 | 131,633 |
| Amhara | 2,838,747 | 5 | 21 | 12 | 19,685,104 |
| North Gonder | 469,230 | 4 | 20 | 11 | 4,498,067 |
| South Gonder | 296,510 | 4 | 21 | 11 | 3,063,053 |
| North Wolo | 277,516 | 6 | 22 | 11 | 4,152,319 |
| South Wolo | 541,420 | 7 | 24 | 12 | 9,683,004 |
| North Shewa | 460,671 | 5 | 21 | 12 | 5,438,111 |
| East Gojam | 250,742 | 7 | 20 | 13 | 5,006,251 |
| West Gojam | 302,140 | 4 | 20 | 13 | 4,041,102 |
| Waghamera | 48,387 | 6 | 22 | 11 | 700,381 |
| Agewawie | 130,905 | 4 | 21 | 13 | 1,625,205 |
| Oromia | 61,226 | 4 | 21 | 12 | 626,530 |
| Oromia | 3,669,670 | 5 | 20 | 12 | 25,628,624 |
| West Wellega | 310,169 | 4 | 18 | 11 | 2,681,485 |
| East Welega | 204,331 | 3 | 19 | 11 | 1,715,484 |
| Illubabor | 222,744 | 3 | 17 | 10 | 1,671,742 |
| Jimma | 435,934 | 4 | 19 | 10 | 4,144,315 |
| West Shewa | 242,787 | 6 | 21 | 12 | 3,893,243 |
| North Shewa | 255,296 | 6 | 23 | 14 | 4,667,138 |
| East Shewa | 352,968 | 7 | 22 | 13 | 6,442,851 |
| Arsi | 429,848 | 5 | 22 | 13 | 6,580,947 |
| West Harerghe | 249,639 | 5 | 19 | 12 | 3,234,668 |
| East Harerghe | 378,202 | 6 | 18 | 11 | 5,327,489 |
| Bale | 181,017 | 6 | 21 | 13 | 2,853,375 |
| Borena | 121,621 | 4 | 19 | 12 | 1,365,569 |
| South West Shewa | 160,194 | 7 | 21 | 12 | 2,813,509 |
| Guji | 124,918 | 4 | 17 | 12 | 1,365,213 |

TABLE 3-17 CONT'D

| Geographic Area | Total Laying Hens | Average Number of Clutches /Anum | Average Number of Days /Clutch | Average Number of Eggs /Hen /Clutch | Total Egg Production (Number) |
|-------------------------|-------------------|----------------------------------|--------------------------------|-------------------------------------|-------------------------------|
| Somale | 61,464 | 5 | 15 | 13 | 415,959 |
| Shinele | 2,439 | 6 | 19 | 13 | 31,696 |
| Jijiga | 41,536 | 5 | 15 | 12 | 558,920 |
| Liben | 17,488 | 5 | 16 | 13 | 203,945 |
| Benshangul-Gumuz | 170,758 | 4 | 17 | 11 | 832,964 |
| Metekel | 60,822 | 3 | 17 | 12 | 612,379 |
| Asosa | 88,075 | 4 | 17 | 10 | 851,105 |
| Kemeshi | 21,861 | 3 | 18 | 10 | 202,444 |
| S.N.N.P.R | 1,935,853 | 4 | 18 | 11 | 9,669,317 |
| Gurage | 193,534 | 4 | 19 | 11 | 1,989,408 |
| Hadiya | 192,764 | 3 | 17 | 11 | 1,512,359 |
| Kembata Tembaro | 89,181 | 3 | 15 | 11 | 755,155 |
| Sidama | 296,272 | 4 | 19 | 12 | 3,583,740 |
| Gedio | 58,791 | 3 | 18 | 11 | 592,020 |
| Wolayita | 190,218 | 4 | 18 | 11 | 1,901,282 |
| South Omo | 83,689 | 4 | 19 | 11 | 787,137 |
| Shaka | 34,309 | 3 | 17 | 11 | 311,078 |
| Kaffa | 181,364 | 3 | 16 | 10 | 1,403,086 |
| Gamo Gofa | 154,422 | 5 | 19 | 11 | 1,735,104 |
| Bench-Maji | 120,850 | 5 | 16 | 11 | 1,550,092 |
| Yem Sp. Wereda | 10,108 | 4 | 19 | 11 | 110,539 |
| Amaro Sp. Wereda | 16,264 | 4 | 18 | 11 | 147,858 |
| Burji Sp. Wereda | 6,182 | 3 | 19 | 11 | 55,523 |
| Konso Sp. Wereda | 27,204 | 5 | 16 | 10 | 307,155 |
| Dirashe Sp. Wereda | 22,003 | 5 | 18 | 11 | 239,367 |
| Dawro | 46,923 | 5 | 15 | 9 | 448,305 |
| Basketo Sp. Wereda | 6,987 | 5 | 20 | 11 | 85,722 |
| Konta Sp. Wereda | 14,378 | 3 | 16 | 9 | 103,985 |
| Konta Special | 161,380 | 4 | 19 | 10 | 1,328,263 |
| Alaba Special | 29,030 | 4 | 19 | 10 | 273,244 |
| Harari | 10,265 | 7 | 17 | 11 | 84,373 |
| Hundene | 10,265 | 7 | 17 | 11 | 168,747 |
| Addis Ababa | 24,962 | 8 | 22 | 14 | 339,882 |
| Zone 3 | 16,125 | 8 | 22 | 14 | 434,406 |
| Zone 6 | 8,837 | 8 | 22 | 14 | 245,358 |
| Dire Dawa | 20,622 | 5 | 18 | 11 | 132,759 |

TABLE 3-18: NUMBER OF CATTLE BY SEX, BREED, ZONE, AND REGION

| Geographic Area | Total | MALE | | | FEMALE | | |
|-------------------|------------|------------|--------|--------|------------|---------|--------|
| | | Indigenous | Hybrid | Exotic | Indigenous | Hybrid | Exotic |
| Ethiopia | 38,102,682 | 16,756,692 | 98,329 | 5,245 | 21,073,435 | 158,589 | 10,391 |
| Tigray | 2,546,790 | 1,222,517 | * | * | 1,289,261 | * | * |
| North West Tigray | 691,608 | 299,246 | * | - | 365,800 | * | * |
| Central Tigray | 614,861 | 334,281 | * | - | 280,091 | * | * |
| Eastern Tigray | 284,386 | 141,062 | 1,661 | * | 137,952 | * | * |
| Southern Tigray | 574,215 | 292,330 | * | - | 279,295 | * | * |
| Western Tigray | 381,721 | 155,598 | - | - | 226,123 | - | * |
| Afar | 385,805 | 77,443 | - | - | 308,361 | - | * |
| Zone 1 | 126,374 | 22,606 | - | - | 103,767 | - | * |
| Zone 3 | 259,431 | 54,837 | - | - | 204,594 | - | * |
| Amhara | 9,592,252 | 4,876,887 | 25,342 | * | 4,654,381 | 32,349 | * |
| North Gonder | 1,547,651 | 745,684 | * | - | 798,263 | * | * |
| South Gonder | 1,118,652 | 581,338 | * | - | 535,440 | * | * |
| North Wolo | 822,188 | 411,232 | * | - | 408,258 | * | * |
| South Wolo | 1,426,158 | 710,679 | * | * | 701,677 | * | * |
| North Shewa | 972,172 | 539,786 | 16,510 | - | 395,638 | 20,238 | * |
| East Gojam | 1,150,217 | 636,075 | - | - | 513,862 | * | * |
| West Gojam | 1,406,586 | 740,756 | - | - | 665,124 | * | * |
| Waghamera | 234,682 | 110,161 | - | - | 124,522 | - | * |
| Agewawie | 607,051 | 268,713 | * | - | 337,167 | * | * |
| Oromia | 306,895 | 132,464 | - | - | 174,431 | - | * |
| Oromia | 16,806,160 | 7,391,057 | 48,459 | 3,345 | 9,283,126 | 75,976 | 4,199 |
| West Wellega | 993,996 | 470,969 | - | - | 523,027 | - | * |
| East Welega | 1,279,640 | 605,362 | * | - | 673,657 | * | * |
| Illubabor | 736,599 | 339,114 | * | - | 396,869 | * | * |
| Jimma | 1,805,856 | 828,911 | - | - | 976,945 | - | * |
| West Shewa | 1,492,408 | 701,106 | * | - | 781,910 | * | * |
| North Shewa | 1,146,266 | 527,765 | 22,034 | * | 556,006 | 36,997 | * |
| East Shewa | 1,187,320 | 556,920 | * | - | 629,517 | * | * |
| Arsi | 2,205,631 | 1,010,901 | 18,365 | 2,139 | 1,144,915 | 28,495 | * |
| West Harerghe | 756,426 | 330,011 | - | - | 426,414 | - | * |
| East Harerghe | 927,849 | 341,218 | * | - | 582,566 | * | * |
| Bale | 1,765,230 | 681,715 | * | - | 1,082,209 | * | * |
| Borena | 987,814 | 349,488 | * | - | 637,407 | * | * |
| South West Shewa | 661,697 | 344,784 | * | * | 315,255 | * | * |
| Guji | 859,428 | 302,792 | * | - | 556,427 | - | * |

TABLE 3-18 CONT'D

| Geographic Area | Total | MALE | | | FEMALE | | |
|-------------------------|-----------|------------|--------|--------|------------|--------|--------|
| | | Indigenous | Hybrid | Exotic | Indigenous | Hybrid | Exotic |
| Somale | 462,958 | 154,526 | - | - | 308,357 | * | * |
| Shinele | 17,146 | 5,076 | - | - | 12,069 | - | * |
| Jijiga | 289,939 | 108,022 | - | - | 181,918 | - | * |
| Liben | 155,873 | 41,428 | - | - | 114,370 | * | * |
| Benshangul-Gumuz | 281,496 | 124,360 | * | - | 156,949 | * | * |
| Metekel | 181,039 | 80,939 | - | - | 100,099 | - | * |
| Asosa | 66,100 | 29,195 | - | - | 36,905 | - | * |
| Kemeshi | 34,357 | 14,225 | * | - | 19,945 | * | * |
| S.N.N.P.R | 7,881,688 | 2,845,974 | 10,386 | * | 4,994,412 | 27,736 | * |
| Gurage | 893,060 | 255,734 | - | * | 636,253 | - | * |
| Hadiya | 670,527 | 278,811 | * | - | 389,817 | * | * |
| Kembata Tembaro | 290,637 | 104,834 | 2,285 | * | 166,014 | 15,610 | * |
| Sidama | 1,411,920 | 361,771 | * | - | 1,042,757 | * | * |
| Gedio | 92,202 | 36,614 | - | - | 55,588 | - | * |
| Wolayita | 695,489 | 272,723 | * | - | 414,687 | * | * |
| South Omo | 681,454 | 253,691 | * | - | 426,896 | * | * |
| Shaka | 75,324 | 28,300 | - | - | 47,023 | - | * |
| Kaffa | 560,122 | 241,921 | - | * | 317,173 | * | * |
| Gamo Gofa | 910,216 | 353,573 | * | - | 556,158 | * | * |
| Bench-Maji | 364,466 | 136,046 | * | - | 227,788 | * | * |
| Yem Sp. Wereda | 48,701 | 23,046 | - | - | 25,654 | - | * |
| Amaro Sp. Wereda | 83,371 | 32,435 | - | - | 50,936 | - | * |
| Burji Sp. Wereda | 33,434 | 18,520 | - | - | 14,914 | - | * |
| Konso Sp. Wereda | 84,142 | 41,458 | - | - | 42,685 | - | * |
| Dirashe Sp. Wereda | 67,797 | 35,239 | - | - | 32,558 | - | * |
| Dawro | 296,086 | 106,876 | - | - | 189,211 | - | * |
| Basketo Sp. Wereda | 21,854 | 9,640 | - | - | 12,214 | - | * |
| Konta Sp. Wereda | 55,516 | 23,635 | - | - | 31,881 | - | * |
| Konta Special | 437,503 | 182,892 | - | - | 254,611 | - | * |
| Alaba Special | 107,868 | 48,215 | * | - | 59,595 | - | * |
| Harari | 32,736 | 11,872 | * | - | 20,406 | * | * |
| Hundene | 32,736 | 11,872 | * | - | 20,406 | * | * |
| Addis Ababa | 67,268 | 37,205 | 461 | - | 27,619 | 1,859 | * |
| Zone 3 | 47,673 | 24,995 | 257 | - | 21,003 | * | * |
| Zone 6 | 19,595 | 12,211 | 204 | - | 6,616 | * | * |
| Dire Dawa | 45,529 | 14,850 | * | - | 30,563 | * | * |

TABLE 3-19 NUMBER OF SHEEP BY SEX, BREED, ZONE, AND REGION

| Geographic Area | Total | MALE | | | FEMALE | | |
|-------------------|------------|------------|--------|--------|------------|--------|--------|
| | | Indigenous | Hybrid | Exotic | Indigenous | Hybrid | Exotic |
| Ethiopia | 16,575,493 | 4,111,273 | * | * | 12,443,625 | 1,444 | 13,946 |
| Tigray | 652,521 | 156,655 | * | * | 494,904 | * | * |
| North West Tigray | 47,869 | 13,151 | - | - | 34,718 | - | * |
| Central Tigray | 137,969 | 32,982 | - | - | 104,988 | - | * |
| Eastern Tigray | 309,223 | 67,889 | * | - | 240,932 | * | * |
| Southern Tigray | 128,557 | 34,055 | - | - | 94,501 | - | * |
| Western Tigray | 28,903 | 8,579 | - | * | 19,765 | - | * |
| Afar | 238,667 | 53,960 | - | - | 184,707 | - | * |
| Zone 1 | 67,581 | 13,765 | - | - | 53,816 | - | * |
| Zone 3 | 171,086 | 40,195 | - | - | 130,891 | - | * |
| Amhara | 6,116,336 | 1,463,761 | - | * | 4,639,633 | * | * |
| North Gonder | 487,561 | 109,325 | - | - | 378,237 | - | * |
| South Gonder | 496,970 | 105,852 | - | - | 391,118 | - | * |
| North Wolo | 638,067 | 148,146 | - | - | 489,921 | - | * |
| South Wolo | 1,661,367 | 429,138 | - | * | 1,221,776 | - | * |
| North Shewa | 1,155,696 | 319,900 | - | * | 833,967 | - | * |
| East Gojam | 854,352 | 157,369 | - | - | 696,682 | * | * |
| West Gojam | 453,949 | 112,245 | - | - | 341,347 | - | * |
| Waghamera | 51,587 | 12,592 | - | - | 38,994 | - | * |
| Agewawie | 292,642 | 58,530 | - | - | 234,113 | - | * |
| Oromia | 24,143 | 10,665 | - | - | 13,478 | - | * |
| Oromia | 5,969,518 | 1,514,255 | - | * | 4,450,202 | * | 4,349 |
| West Wellega | 207,081 | 57,905 | - | - | 148,851 | * | * |
| East Welega | 308,188 | 80,244 | - | - | 227,944 | - | * |
| Illubabor | 287,655 | 64,816 | - | - | 222,839 | - | * |
| Jimma | 678,820 | 155,413 | - | - | 523,408 | - | * |
| West Shewa | 664,207 | 159,412 | - | * | 502,956 | - | * |
| North Shewa | 829,306 | 219,479 | - | - | 608,793 | - | * |
| East Shewa | 250,456 | 67,267 | - | - | 183,189 | - | * |
| Arsi | 1,239,594 | 325,194 | - | - | 913,420 | - | * |
| West Harerghe | 122,142 | 28,092 | - | - | 94,051 | - | * |
| East Harerghe | 210,549 | 60,482 | - | - | 150,067 | - | * |
| Bale | 631,007 | 147,141 | - | - | 483,191 | - | * |
| Borena | 161,880 | 43,587 | - | - | 118,293 | - | * |
| South West Shewa | 133,509 | 33,596 | - | - | 99,912 | - | * |
| Guji | 245,124 | 71,626 | - | - | 173,289 | - | * |

TABLE 3-19 CONT'D

| Geographic Area | Total | MALE | | | FEMALE | | |
|-------------------------|-----------|------------|--------|--------|------------|--------|--------|
| | | Indigenous | Hybrid | Exotic | Indigenous | Hybrid | Exotic |
| Somale | 460,116 | 121,750 | - | - | 338,367 | - | * |
| Shinele | 42,463 | 11,063 | - | - | 31,400 | - | * |
| Jijiga | 282,051 | 66,807 | - | - | 215,244 | - | * |
| Liben | 135,602 | * | - | - | 91,723 | - | * |
| Benshangul-Gumuz | 58,027 | 16,065 | * | - | 41,303 | * | * |
| Metekel | 32,384 | 8,945 | * | - | 22,780 | * | * |
| Asosa | 12,697 | 3,438 | - | - | 9,259 | - | * |
| Kemeshi | 12,946 | 3,682 | - | - | 9,264 | - | * |
| S.N.N.P.R | 3,007,969 | 763,959 | - | - | 2,243,038 | * | * |
| Gurage | 241,086 | 48,674 | - | - | 192,412 | - | * |
| Hadiya | 202,869 | 47,123 | - | - | 155,746 | - | * |
| Kembata Tembaro | 95,010 | 28,538 | - | - | 66,471 | - | * |
| Sidama | 315,089 | 68,840 | - | - | 246,249 | - | * |
| Gedio | 105,712 | 27,027 | - | - | 78,685 | - | * |
| Wolayita | 122,653 | 41,049 | - | - | 81,604 | - | * |
| South Omo | 486,963 | 169,720 | - | - | 317,243 | - | * |
| Shaka | 41,033 | 9,793 | - | - | 31,240 | - | * |
| Kaffa | 319,369 | 68,985 | - | - | 250,384 | - | * |
| Gamo Gofa | 473,939 | 99,445 | - | - | 373,521 | * | * |
| Bench-Maji | 148,821 | 31,908 | - | - | 116,913 | - | * |
| Yem Sp. Wereda | 18,240 | 3,393 | - | - | 14,847 | - | * |
| Amaro Sp. Wereda | 50,091 | 12,211 | - | - | 37,880 | - | * |
| Burji Sp. Wereda | 1,975 | 700 | - | - | 1,274 | - | * |
| Konso Sp. Wereda | 68,468 | 26,945 | - | - | 41,523 | - | * |
| Dirashe Sp. Wereda | 10,190 | 3,053 | - | - | 7,137 | - | * |
| Dawro | 76,207 | 21,962 | - | - | 54,246 | - | * |
| Basketo Sp. Wereda | 9,241 | 1,645 | - | - | 7,596 | - | * |
| Konta Sp. Wereda | 13,576 | 4,361 | - | - | 9,215 | - | * |
| Konta Special | 182,228 | 41,960 | - | - | 140,269 | - | * |
| Alaba Special | 25,211 | 6,628 | - | - | 18,583 | - | * |
| Harari | 3,757 | 868 | - | - | 2,889 | - | * |
| Hundene | 3,757 | 868 | - | - | 2,889 | - | * |
| Addis Ababa | 16,494 | 5,135 | - | - | 11,359 | - | * |
| Zone 3 | 11,172 | 3,702 | - | - | 7,470 | - | * |
| Zone 6 | 5,322 | 1,433 | - | - | 3,889 | - | * |
| Dire Dawa | 52,088 | 14,865 | - | - | 37,223 | - | * |

TABLE 3-20: NUMBER OF GOATS BY SEX, BREED, ZONE, AND REGION

| Geographic Area | Total | MALE | | | FEMALE | | |
|-------------------|------------|------------|--------|--------|------------|--------|--------|
| | | Indigenous | Hybrid | Exotic | Indigenous | Hybrid | Exotic |
| Ethiopia | 13,834,703 | 4,099,309 | * | - | 9,721,375 | * | * |
| Tigray | 2,034,710 | 597,581 | * | - | 1,423,252 | * | * |
| North West Tigray | 682,642 | 194,670 | * | - | 474,305 | * | * |
| Central Tigray | 786,190 | 236,206 | - | - | 549,984 | - | * |
| Eastern Tigray | 144,445 | 39,622 | - | - | 104,823 | - | * |
| Southern Tigray | 251,078 | 69,578 | - | - | 181,500 | - | * |
| Western Tigray | 170,356 | 57,505 | - | - | 112,641 | - | * |
| Afar | 438,083 | 92,560 | - | - | 345,523 | - | * |
| Zone 1 | 115,851 | 20,435 | - | - | 95,416 | - | * |
| Zone 3 | 322,232 | 72,125 | - | - | 250,107 | - | * |
| Amhara | 3,969,106 | 1,238,534 | - | - | 2,730,572 | - | * |
| North Gonder | 791,826 | 223,876 | - | - | 567,950 | - | * |
| South Gonder | 421,895 | 125,016 | - | - | 296,879 | - | * |
| North Wolo | 550,433 | 156,483 | - | - | 393,950 | - | * |
| South Wolo | 799,454 | 269,460 | - | - | 529,994 | - | * |
| North Shewa | 537,105 | 210,320 | - | - | 326,785 | - | * |
| East Gojam | 163,133 | 46,341 | - | - | 116,792 | - | * |
| West Gojam | 189,759 | 61,666 | - | - | 128,093 | - | * |
| Waghamera | 271,727 | 69,438 | - | - | 202,289 | - | * |
| Agewawie | 104,976 | 33,511 | - | - | 71,465 | - | * |
| Oromia | 138,798 | 42,423 | - | - | 96,376 | - | * |
| Oromia | 4,081,039 | 1,173,806 | - | - | 2,907,233 | - | * |
| West Wellega | 74,458 | 26,312 | - | - | 48,145 | - | * |
| East Welega | 153,038 | 49,093 | - | - | 103,945 | - | * |
| Illubabor | 83,951 | 24,795 | - | - | 59,156 | - | * |
| Jimma | 232,125 | 69,118 | - | - | 163,007 | - | * |
| West Shewa | 153,087 | 45,830 | - | - | 107,257 | - | * |
| North Shewa | 104,112 | 30,395 | - | - | 73,717 | - | * |
| East Shewa | 445,803 | 117,148 | - | - | 328,655 | - | * |
| Arsi | 288,098 | 82,134 | - | - | 205,964 | - | * |
| West Harerghe | 502,589 | 145,590 | - | - | 356,999 | - | * |
| East Harerghe | 647,955 | 196,101 | - | - | 451,854 | - | * |
| Bale | 472,863 | 127,397 | - | - | 345,466 | - | * |
| Borena | 584,729 | 164,275 | - | - | 420,454 | - | * |
| South West Shewa | 121,776 | 34,838 | - | - | 86,938 | - | * |
| Guji | 216,453 | 60,779 | - | - | 155,674 | - | * |

TABLE 3-20 CONT'D

| Geographic Area | Total | MALE | | | FEMALE | | |
|-------------------------|-----------|------------|--------|--------|------------|--------|--------|
| | | Indigenous | Hybrid | Exotic | Indigenous | Hybrid | Exotic |
| Somale | 606,717 | 159,886 | - | - | 446,832 | - | * |
| Shinele | 84,949 | 20,894 | - | - | 64,054 | - | * |
| Jijiga | 274,491 | 77,535 | - | - | 196,956 | - | * |
| Liben | 247,277 | 61,456 | - | - | 185,821 | - | * |
| Benshangul-Gumuz | 218,515 | 64,500 | - | - | 154,015 | - | * |
| Metekel | 89,579 | 27,803 | - | - | 61,776 | - | * |
| Asosa | 94,199 | 27,584 | - | - | 66,615 | - | * |
| Kemeshi | 34,737 | 9,114 | - | - | 25,623 | - | * |
| S.N.N.P.R | 2,317,624 | 726,326 | * | - | 1,591,156 | - | * |
| Gurage | 115,767 | 25,422 | - | - | 90,345 | - | * |
| Hadiya | 133,425 | 37,059 | - | - | 96,367 | - | * |
| Kembata Tembaro | 36,042 | 10,152 | * | - | 25,748 | - | * |
| Sidama | 175,321 | 49,911 | - | - | 125,410 | - | * |
| Gedio | 9,157 | 2,234 | - | - | 6,922 | - | * |
| Wolayita | 119,539 | 33,932 | - | - | 85,608 | - | * |
| South Omo | 900,132 | 320,579 | - | - | 579,553 | - | * |
| Shaka | 8,087 | 2,342 | - | - | 5,745 | - | * |
| Kaffa | 87,847 | 23,564 | - | - | 64,283 | - | * |
| Gamo Gofa | 224,314 | 65,243 | - | - | 159,071 | - | * |
| Bench-Maji | 48,407 | 11,342 | - | - | 37,065 | - | * |
| Yem Sp. Wereda | 17,340 | 3,690 | - | - | 13,650 | - | * |
| Amaro Sp. Wereda | 39,738 | 11,908 | - | - | 27,831 | - | * |
| Burji Sp. Wereda | 21,507 | 6,862 | - | - | 14,645 | - | * |
| Konso Sp. Wereda | 116,310 | 44,513 | - | - | 71,796 | - | * |
| Dirashe Sp. Wereda | 52,133 | 17,241 | - | - | 34,891 | - | * |
| Dawro | 39,033 | 11,046 | - | - | 27,988 | - | * |
| Basketo Sp. Wereda | 3,270 | 875 | - | - | 2,395 | - | * |
| Konta Sp. Wereda | 7,144 | 2,124 | - | - | 5,020 | - | * |
| Konta Special | 122,610 | 36,466 | - | - | 86,143 | - | * |
| Alaba Special | 40,501 | 9,819 | - | - | 30,681 | - | * |
| Harari | 26,356 | 7,569 | - | - | 18,787 | - | * |
| Hundene | 26,356 | 7,569 | - | - | 18,787 | - | * |
| Addis Ababa | 10,218 | 3,290 | - | - | 6,928 | - | * |
| Zone 3 | 7,588 | 2,345 | - | - | 5,242 | - | * |
| Zone 6 | * | * | - | - | 1,686 | - | * |
| Dire Dawa | 132,335 | 35,258 | - | - | 97,077 | - | * |

TABLE 3-21: ESTIMATED NUMBER OF LIVESTOCK VACCINATED BY ZONE AND REGION

| Geographic Area | Cattle | Sheep | Goats | Draught Animals | Camels | Poultry |
|-------------------|-----------|-----------|---------|-----------------|--------|---------|
| Ethiopia | 8,694,197 | 1,133,056 | 989,759 | 493,498 | 38,005 | 141,284 |
| Tigray | 1,271,974 | 217,466 | 496,885 | 62,348 | 15,457 | 38,563 |
| North West Tigray | 272,050 | 13,077 | 132,162 | 7,447 | 341 | 13,661 |
| Central Tigray | 297,170 | 31,738 | 203,130 | 19,951 | 2,121 | 6,701 |
| Eastern Tigray | 217,383 | 117,529 | 54,613 | 13,855 | - | 359 |
| Southern Tigray | 391,160 | 48,943 | 79,999 | 17,761 | 12,622 | 12,387 |
| Western Tigray | 94,211 | 6,179 | 26,981 | 3,334 | 373 | 5,456 |
| Afar | 11,834 | 3,082 | 5,129 | - | 1,177 | 105 |
| Zone 1 | 6,058 | 930 | 1,052 | - | - | * |
| Zone 3 | 5,775 | 2,152 | 4,077 | - | 1,177 | 105 |
| Amhara | 1,386,735 | 505,745 | 187,056 | 84,805 | 809 | 76,187 |
| North Gonder | 145,558 | 33,550 | 50,954 | 20,306 | - | * |
| South Gonder | 148,021 | 15,664 | 7,230 | 8,949 | - | * |
| North Wolo | 92,731 | 1,643 | 13,572 | 1,421 | 331 | 292 |
| South Wolo | 357,286 | 208,691 | 48,686 | 16,821 | - | 59,602 |
| North Shewa | 116,014 | 102,494 | 20,190 | 5,165 | - | 11,254 |
| East Gojam | 220,301 | 117,198 | 13,773 | 18,222 | - | 1,368 |
| West Gojam | 130,586 | 10,519 | - | 3,161 | - | * |
| Waghamera | 27,516 | 5,874 | 23,727 | 1,533 | - | * |
| Agewawie | 66,283 | 8,978 | 2,767 | 9,056 | - | 3,294 |
| Oromia | 82,439 | 1,134 | 6,158 | 170 | 478 | 377 |
| Oromia | 4,170,912 | 327,868 | 167,580 | 311,392 | 2,520 | 22,392 |
| West Wellega | 429,408 | 1,228 | 297 | 10,681 | 341 | 1,822 |
| East Welega | 287,640 | 8,548 | - | 32,629 | - | 310 |
| Illubabor | 172,871 | 2,710 | - | 7,984 | - | * |
| Jimma | 270,138 | - | - | 6,576 | - | 1,900 |
| West Shewa | 225,451 | 67,050 | 674 | 36,346 | - | 8,972 |
| North Shewa | 316,298 | 74,751 | 3,157 | 1,110 | - | 3,251 |
| East Shewa | 414,219 | 20,270 | 33,230 | 34,099 | - | * |
| Arsi | 579,801 | 105,753 | 3,612 | 98,696 | - | * |
| West Harerghe | 206,591 | 10,323 | 46,662 | 5,141 | 343 | * |
| East Harerghe | 120,635 | 21,585 | 30,714 | 7,437 | - | * |
| Bale | 446,996 | 4,225 | 6,702 | 24,310 | - | * |
| Borena | 282,191 | 6,810 | 13,431 | 1,120 | 1,392 | 3,476 |
| South West Shewa | 166,821 | 2,320 | - | 34,312 | - | 887 |
| Guji | 251,851 | 2,294 | 29,102 | 10,952 | 444 | 1,775 |

Note: Draught animals in this and the following tables refer to Horses, Asses, and Mules.

TABLE 3-21 CONT'D

| Geographic Area | Cattle | Sheep | Goats | Draught Animals | Camels | Poultry |
|-------------------------|-----------|--------|--------|--------------------|--------|---------|
| Somale | 53,599 | 32,788 | 74,563 | 4,152 | 17,940 | * |
| Shinele | 1,431 | 313 | 1,560 | - | 8 | * |
| Jijiga | 6,266 | 6,891 | 2,409 | 110 | 134 | * |
| Liben | 45,903 | 25,584 | 70,594 | 4,041 | 17,797 | * |
| Benshangul-Gumuz | 59,989 | 371 | 2,696 | 1,364 | - | 451 |
| Metekel | 30,731 | 308 | - | 1,083 | - | * |
| Asosa | 19,034 | - | 2,539 | 156 | - | * |
| Kemeshi | 10,224 | 63 | 157 | 125 | - | 451 |
| S.N.N.P.R | 1,683,191 | 29,052 | 23,050 | 29,151 | - | 2,738 |
| Gurage | 182,093 | 906 | 3,929 | 3,682 | - | * |
| Hadiya | 201,009 | 747 | 491 | 6,342 | - | * |
| Kembata Tembaro | 85,286 | 1,351 | 981 | 3,568 | - | * |
| Sidama | 232,708 | 3,289 | - | 1,242 | - | * |
| Gedio | 18,308 | - | - | 1,603 | - | * |
| Wolayita | 156,711 | 3,144 | - | 575 | - | 627 |
| South Omo | 55,293 | 2,789 | 4,930 | 880 | - | * |
| Shaka | 50,012 | 4,629 | 1,599 | 369 | - | 76 |
| Kaffa | 110,362 | 3,139 | 874 | 3,218 | - | 754 |
| Gamo Gofa | 215,434 | - | 2,046 | - | - | * |
| Bench-Maji | 141,790 | 2,499 | 715 | 1,384 | - | 230 |
| Yem Sp. Wereda | 25,176 | - | - | - | - | 23 |
| Amaro Sp. Wereda | 12,129 | 374 | 844 | - | - | * |
| Burji Sp. Wereda | 9,961 | 48 | 887 | 14 | - | * |
| Konso Sp. Wereda | 13,690 | 1,467 | 3,224 | - | - | * |
| Dirashe Sp. Wereda | 7,735 | 601 | 540 | 104 | - | * |
| Dawro | 50,606 | - | - | 604 | - | * |
| Basketo Sp. Wereda | 7,740 | 398 | - | 62 | - | * |
| Konta Sp. Wereda | 12,184 | 206 | - | 131 | - | 268 |
| Konta Special | 65,525 | 2,321 | - | 3,836 | - | 759 |
| Alaba Special | 29,440 | 1,143 | 1,990 | 1,538 | - | * |
| Harari | 2,402 | 23 | 176 | 81 | - | * |
| Hundene | 2,402 | 23 | 176 | 81 | - | * |
| Addis Ababa | 37,132 | 588 | 98 | 27 | - | 514 |
| Zone 3 | 23,221 | 452 | 98 | 27 | - | 514 |
| Zone 6 | 13,911 | 136 | - | - | - | * |
| Dire Dawa | 16,428 | 16,074 | 32,526 | 179 | 102 | 334 |

TABLE 3-22: ESTIMATED NUMBER OF LIVESTOCK AFFLICTED/DISEASED BY ZONE AND REGION

| Geographic Area | Cattle | Sheep | Goats | Draught Animals | Camels | Poultry |
|-------------------|-----------|-----------|-----------|-----------------|--------|-----------|
| Ethiopia | 5,592,656 | 2,671,938 | 2,117,792 | 558,748 | 53,877 | 9,239,119 |
| Tigray | 179,794 | 77,786 | 236,837 | 19,496 | 1,183 | 592,450 |
| North West Tigray | 47,900 | 11,508 | 56,910 | 1,647 | 457 | 115,327 |
| Central Tigray | 37,574 | 15,826 | 125,858 | 7,808 | 273 | 246,914 |
| Eastern Tigray | 23,028 | 35,599 | 15,651 | 2,820 | - | 19,176 |
| Southern Tigray | 38,708 | 10,860 | 28,953 | 5,372 | 383 | 63,132 |
| Western Tigray | 32,584 | 3,992 | 9,465 | 1,849 | 70 | 147,901 |
| Afar | 167,063 | 108,766 | 142,716 | 2,162 | 26,296 | 24,274 |
| Zone 1 | 70,402 | 34,802 | 40,941 | 45 | 2,027 | 76 |
| Zone 3 | 96,661 | 73,964 | 101,775 | 2,117 | 24,269 | 24,199 |
| Amhara | 1,050,525 | 834,559 | 576,434 | 130,651 | 2,698 | 2,467,306 |
| North Gonder | 180,495 | 68,308 | 139,598 | 21,257 | - | 944,630 |
| South Gonder | 112,334 | 88,764 | 64,116 | 19,237 | - | 164,444 |
| North Wolo | 57,582 | 133,413 | 52,276 | 5,594 | 624 | 80,144 |
| South Wolo | 94,829 | 175,386 | 111,310 | 9,619 | 1,435 | 108,927 |
| North Shewa | 74,204 | 92,477 | 79,180 | 15,576 | - | 304,481 |
| East Gojam | 119,698 | 137,323 | 20,226 | 17,936 | - | 118,195 |
| West Gojam | 225,209 | 74,309 | 14,923 | 14,419 | - | 386,530 |
| Waghamera | 33,619 | 4,910 | 49,467 | 5,389 | - | 30,887 |
| Agewawie | 127,405 | 58,022 | 30,772 | 20,508 | - | 318,219 |
| Oromia | 25,150 | 1,648 | 14,565 | 1,116 | 639 | 10,849 |
| Oromia | 2,838,753 | 1,129,746 | 637,750 | 316,521 | 18,341 | 3,970,305 |
| West Wellega | 306,683 | 27,919 | 15,189 | 21,022 | - | 422,837 |
| East Welega | 297,941 | 49,064 | 29,294 | 26,455 | - | 337,432 |
| Illubabor | 189,219 | 58,519 | 14,291 | 10,382 | - | 264,284 |
| Jimma | 310,705 | 101,354 | 24,128 | 26,321 | - | 454,903 |
| West Shewa | 306,811 | 147,579 | 29,619 | 26,796 | - | 545,144 |
| North Shewa | 112,246 | 153,432 | 20,534 | 8,855 | - | 153,775 |
| East Shewa | 129,813 | 52,601 | 89,124 | 20,988 | 2,600 | 427,474 |
| Arsi | 381,421 | 296,973 | 30,305 | 67,906 | 3,279 | 476,169 |
| West Harerghe | 113,572 | 11,347 | 56,273 | 13,852 | 1,815 | 145,409 |
| East Harerghe | 153,596 | 12,856 | 61,214 | 11,288 | 904 | 150,099 |
| Bale | 256,257 | 134,065 | 96,280 | 43,774 | 3,080 | 107,103 |
| Borena | 72,143 | 27,556 | 83,082 | 3,282 | 4,183 | 108,439 |
| South West Shewa | 96,755 | 19,741 | 15,789 | 13,852 | - | 211,235 |
| Guji | 111,592 | 36,740 | 72,629 | 21,748 | 2,481 | 166,002 |

TABLE 3-22 CONT'D

| Geographic Area | Cattle | Sheep | Goats | Draught Animals | Camels | Poultry |
|-------------------------|-----------|---------|---------|--------------------|--------|-----------|
| Somale | 32,895 | 52,204 | 62,706 | 1,478 | 3,935 | 11,152 |
| Shinele | 6,217 | 17,187 | 27,171 | 553 | 1,035 | 568 |
| Jijiga | 19,045 | 26,674 | 21,856 | 459 | 1,033 | 3,903 |
| Liben | 7,633 | 8,342 | 13,678 | 466 | 1,866 | 6,682 |
| Benshangul-Gumuz | 130,875 | 30,868 | 162,103 | 14,252 | - | 657,915 |
| Metekel | 60,077 | 9,849 | 31,257 | 4,869 | - | 137,893 |
| Asosa | 55,663 | 15,283 | 117,887 | 8,040 | - | 478,118 |
| Kemeshi | 15,135 | 5,736 | 12,959 | 1,343 | - | 41,903 |
| S.N.N.P.R | 1,170,517 | 428,155 | 280,851 | 72,250 | - | 1,473,265 |
| Gurage | 108,209 | 25,467 | 5,140 | 3,000 | - | 73,025 |
| Hadiya | 89,196 | 15,705 | 15,109 | 6,523 | - | 147,490 |
| Kembata Tembaro | 30,664 | 5,589 | 1,455 | 2,677 | - | 26,700 |
| Sidama | 142,985 | 33,826 | 12,604 | 14,169 | - | 87,231 |
| Gedio | 10,924 | 11,396 | 174 | 5,144 | - | 37,902 |
| Wolayita | 157,564 | 9,980 | 18,489 | 5,204 | - | 102,239 |
| South Omo | 79,349 | 58,453 | 107,958 | 2,573 | - | 77,811 |
| Shaka | 9,448 | 6,501 | 1,180 | 537 | - | 63,447 |
| Kaffa | 83,604 | 69,577 | 15,509 | 8,368 | - | 258,029 |
| Gamo Gofa | 190,211 | 91,758 | 27,813 | 5,118 | - | 157,751 |
| Bench-Maji | 59,348 | 29,315 | 5,216 | 3,155 | - | 204,374 |
| Yem Sp. Wereda | 5,105 | 1,320 | 1,273 | 222 | - | 5,711 |
| Amaro Sp. Wereda | 16,243 | 7,660 | 6,555 | 858 | - | 3,761 |
| Burji Sp. Wereda | 13,424 | 527 | 6,894 | 695 | - | 7,898 |
| Konso Sp. Wereda | 21,491 | 11,543 | 20,012 | 410 | - | 15,589 |
| Dirashe Sp. Wereda | 13,963 | 2,302 | 9,352 | 1,126 | - | 19,049 |
| Dawro | 66,740 | 11,301 | 2,301 | 3,217 | - | 28,505 |
| Basketo Sp. Wereda | 1,622 | 694 | 391 | 25 | - | 2,578 |
| Konta Sp. Wereda | 16,867 | 2,184 | 746 | 350 | - | 9,031 |
| Konta Special | 40,325 | 28,804 | 16,768 | 7,670 | - | 114,860 |
| Alaba Special | 13,235 | 4,254 | 5,913 | 1,209 | - | 30,284 |
| Harari | 6,203 | 364 | 2,618 | 431 | 341 | 2,755 |
| Hundene | 6,203 | 364 | 2,618 | 431 | 341 | 2,755 |
| Addis Ababa | 7,554 | 3,643 | 1,059 | 1,273 | - | 34,241 |
| Zone 3 | 5,543 | 2,032 | 864 | 502 | - | 18,575 |
| Zone 6 | 2,011 | 1,611 | 195 | 771 | - | 15,666 |
| Dire Dawa | 8,477 | 5,847 | 14,717 | 233 | 1,083 | 5,455 |

TABLE 3-23: ESTIMATED NUMBER OF LIVESTOCK TREATED BY ZONE AND REGION

| Geographic Area | Cattle | Sheep | Goats | Draught Animals | Camels | Poultry |
|-------------------|-----------|---------|---------|-----------------|--------|---------|
| Ethiopia | 2,014,274 | 322,280 | 328,991 | 146,688 | 8,061 | 179,118 |
| Tigray | 79,052 | 21,597 | 85,852 | 8,358 | 498 | 24,561 |
| North West Tigray | 27,644 | 6,189 | 28,125 | 886 | 155 | * |
| Central Tigray | 12,261 | 3,597 | 34,086 | 2,745 | 273 | 7,387 |
| Eastern Tigray | 8,936 | 8,030 | 12,001 | 1,926 | - | 1,716 |
| Southern Tigray | 19,687 | 1,432 | 9,000 | 2,388 | - | 7,474 |
| Western Tigray | 10,525 | 2,349 | 2,640 | 413 | 70 | 7,984 |
| Afar | 4,147 | 2,673 | 3,346 | - | 71 | * |
| Zone 1 | 1,802 | 243 | 484 | - | 12 | * |
| Zone 3 | 2,344 | 2,430 | 2,862 | - | 58 | * |
| Amhara | 351,750 | 127,891 | 99,564 | 23,935 | 187 | 36,740 |
| North Gonder | 43,570 | 7,517 | 24,503 | 4,560 | - | 4,890 |
| South Gonder | 27,243 | 9,569 | 2,985 | 3,550 | - | * |
| North Wolo | 5,809 | 13,008 | 5,272 | - | - | 307 |
| South Wolo | 21,958 | 26,297 | 19,179 | 3,669 | - | 1,866 |
| North Shewa | 15,281 | 14,534 | 7,750 | 1,711 | - | 16,743 |
| East Gojam | 47,658 | 22,517 | 2,892 | 1,348 | - | * |
| West Gojam | 112,873 | 15,363 | 4,058 | 3,374 | - | 1,658 |
| Waghamera | 8,130 | 1,558 | 19,198 | 782 | - | * |
| Agewawie | 63,187 | 17,528 | 10,567 | 4,847 | - | 10,531 |
| Oromia | 6,042 | - | 3,161 | 93 | 187 | 746 |
| Oromia | 1,096,963 | 136,419 | 78,343 | 90,093 | 6,524 | 88,011 |
| West Wellega | 228,729 | 10,199 | 3,080 | 12,229 | - | 25,608 |
| East Welega | 171,941 | 10,298 | 6,567 | 10,691 | - | 21,835 |
| Illubabor | 105,155 | 7,489 | 1,054 | 5,152 | - | 2,138 |
| Jimma | 130,813 | 8,208 | - | 6,333 | - | 4,156 |
| West Shewa | 68,637 | 13,526 | - | 6,028 | - | 8,947 |
| North Shewa | 28,138 | 24,153 | 848 | 566 | - | 1,102 |
| East Shewa | 39,074 | 5,818 | 12,862 | 5,220 | - | 13,760 |
| Arsi | 83,238 | 29,410 | 347 | 16,295 | 798 | 7,137 |
| West Harerghe | 34,320 | 1,734 | 13,641 | 1,586 | - | * |
| East Harerghe | 45,402 | 3,223 | 9,274 | 1,444 | 339 | 396 |
| Bale | 68,629 | 14,610 | 972 | 16,766 | 2,407 | * |
| Borena | 21,259 | 4,362 | 13,999 | 1,247 | 703 | 2,139 |
| South West Shewa | 40,415 | 1,589 | 188 | 4,321 | - | 189 |
| Guji | 31,212 | 1,801 | 15,510 | 2,216 | 2,277 | 604 |

TABLE 3-23 CONT'D

| Geographic Area | Cattle | Sheep | Goats | Draught Animals | Camels | Poultry |
|-------------------------|---------|--------|--------|-----------------|--------|---------|
| Somale | 3,729 | 3,978 | 7,887 | 139 | 410 | * |
| Shinele | 122 | 347 | 404 | - | 14 | * |
| Jijiga | 1,380 | 840 | 231 | - | - | * |
| Liben | 2,227 | 2,791 | 7,252 | 139 | 396 | * |
| Benshangul-Gumuz | 93,054 | 5,791 | 16,530 | 6,552 | - | 9,341 |
| Metekel | 38,335 | 2,106 | 1,695 | 2,649 | - | 3,253 |
| Asosa | 45,073 | 2,384 | 13,908 | 3,598 | - | 4,908 |
| Kemeshi | 9,647 | 1,302 | 927 | 305 | - | 1,180 |
| S.N.N.P.R | 379,927 | 21,676 | 32,581 | 17,172 | - | 17,012 |
| Gurage | 27,084 | 246 | - | 556 | - | * |
| Hadiya | 10,496 | 714 | - | 489 | - | 1,147 |
| Kembata Tembaro | 9,925 | 927 | 134 | 1,003 | - | * |
| Sidama | 27,604 | 1,016 | 1,920 | 1,530 | - | * |
| Gedio | 3,258 | 328 | 174 | 1,101 | - | 496 |
| Wolayita | 90,103 | 887 | 891 | 2,866 | - | 4,755 |
| South Omo | 16,871 | 4,284 | 14,133 | 550 | - | 155 |
| Shaka | 3,911 | 334 | 25 | 163 | - | 675 |
| Kaffa | 15,240 | 870 | - | 1,859 | - | * |
| Gamo Gofa | 76,294 | - | 3,626 | 1,480 | - | 650 |
| Bench-Maji | 14,802 | 4,719 | 371 | 977 | - | 3,366 |
| Yem Sp. Wereda | 3,382 | 221 | 23 | 46 | - | 65 |
| Amaro Sp. Wereda | 7,340 | 1,059 | 1,319 | 180 | - | 127 |
| Burji Sp. Wereda | 9,524 | 185 | 2,276 | 145 | - | 233 |
| Konso Sp. Wereda | 13,249 | 2,426 | 6,156 | 57 | - | * |
| Dirashe Sp. Wereda | 2,743 | - | 831 | 170 | - | * |
| Dawro | 28,976 | 1,247 | 196 | 2,100 | - | * |
| Basketo Sp. Wereda | 827 | 146 | 20 | - | - | * |
| Konta Sp. Wereda | 7,972 | 189 | 111 | 210 | - | 64 |
| Konta Special | 9,095 | 1,878 | 377 | 1,545 | - | 5,278 |
| Alaba Special | 1,233 | - | - | 146 | - | * |
| Harari | 2,134 | - | 887 | 143 | 26 | 21 |
| Hundene | 2,134 | - | 887 | 143 | 26 | 21 |
| Addis Ababa | 2,255 | 374 | - | 214 | - | 3,432 |
| Zone 3 | 1,678 | 374 | - | 59 | - | 2,590 |
| Zone 6 | 577 | - | - | 154 | - | 842 |
| Dire Dawa | 1,263 | 1,880 | 4,002 | 83 | 345 | * |

TABLE 3-24: ESTIMATED NUMBER OF LIVESTOCK DIED BY ZONE AND REGION

| Geographic Area | Cattle | Sheep | Goats | Draught Animals | Camels | Poultry |
|-------------------|-----------|-----------|-----------|-----------------|--------|-----------|
| Ethiopia | 2,840,323 | 2,058,296 | 1,552,485 | 345,953 | 35,119 | 8,645,703 |
| Tigray | 77,975 | 55,034 | 161,878 | 10,488 | 171 | 534,612 |
| North West Tigray | 13,266 | 7,080 | 32,860 | 144 | - | 102,980 |
| Central Tigray | 17,313 | 11,552 | 93,527 | 5,061 | - | 230,255 |
| Eastern Tigray | 11,738 | 24,830 | 10,729 | 1,615 | - | 16,168 |
| Southern Tigray | 21,961 | 9,833 | 20,788 | 2,969 | 171 | 57,740 |
| Western Tigray | 13,697 | 1,739 | 3,974 | 700 | - | 127,470 |
| Afar | 126,481 | 85,218 | 104,900 | 1,318 | 20,013 | 22,395 |
| Zone 1 | 56,142 | 28,688 | 32,585 | 45 | 1,371 | 76 |
| Zone 3 | 70,339 | 56,531 | 72,315 | 1,273 | 18,643 | 22,319 |
| Amhara | 506,836 | 653,195 | 410,213 | 99,590 | 1,995 | 2,344,458 |
| North Gonder | 60,007 | 50,480 | 86,847 | 15,228 | - | 895,606 |
| South Gonder | 68,581 | 76,665 | 54,630 | 16,945 | - | 158,491 |
| North Wolo | 36,575 | 101,101 | 41,628 | 4,725 | 293 | 71,998 |
| South Wolo | 51,918 | 142,522 | 66,984 | 5,439 | 1,435 | 101,928 |
| North Shewa | 43,985 | 76,048 | 63,952 | 11,346 | - | 292,207 |
| East Gojam | 63,811 | 101,312 | 18,419 | 15,796 | - | 116,716 |
| West Gojam | 84,920 | 55,375 | 9,520 | 9,613 | - | 374,243 |
| Waghamera | 21,883 | 3,363 | 35,759 | 4,300 | - | 26,370 |
| Agewawie | 59,967 | 45,066 | 23,258 | 15,580 | - | 296,430 |
| Oromia | 15,190 | 1,264 | 9,216 | 618 | 267 | 10,468 |
| Oromia | 1,487,756 | 879,757 | 491,925 | 185,460 | 11,019 | 3,721,765 |
| West Wellega | 110,423 | 15,103 | 10,451 | 9,546 | - | 362,843 |
| East Welega | 138,215 | 39,701 | 23,583 | 14,749 | - | 313,336 |
| Illubabor | 75,216 | 41,352 | 11,445 | 3,681 | - | 251,174 |
| Jimma | 161,609 | 71,140 | 21,208 | 14,014 | - | 414,092 |
| West Shewa | 174,238 | 120,452 | 20,412 | 16,357 | - | 524,011 |
| North Shewa | 54,878 | 121,969 | 16,243 | 7,310 | - | 151,256 |
| East Shewa | 68,853 | 45,199 | 68,806 | 17,162 | 2,340 | 411,052 |
| Arsi | 273,739 | 244,748 | 27,653 | 42,101 | 2,067 | 458,124 |
| West Harerghe | 70,708 | 6,451 | 40,767 | 7,440 | 1,815 | 142,534 |
| East Harerghe | 95,675 | 6,439 | 45,774 | 8,335 | 339 | 140,657 |
| Bale | 138,010 | 103,432 | 74,979 | 23,807 | 356 | 103,995 |
| Borena | 26,664 | 19,651 | 58,968 | 728 | 2,475 | 97,464 |
| South West Shewa | 38,669 | 15,054 | 13,567 | 8,893 | - | 203,970 |
| Guji | 60,859 | 29,065 | 58,069 | 11,336 | 1,627 | 147,257 |

TABLE 3-24 CONT'D

| Geographic Area | Cattle | Sheep | Goats | Draught Animals | Camels | Poultry |
|-------------------------|---------|---------|---------|--------------------|--------|-----------|
| Somale | 17,213 | 30,202 | 34,474 | 938 | 1,292 | 10,020 |
| Shinele | 5,062 | 13,932 | 19,065 | 423 | 798 | 515 |
| Jijiga | 9,085 | 11,812 | 11,025 | 285 | - | 3,333 |
| Liben | 3,065 | 4,458 | 4,385 | 230 | 494 | 6,172 |
| Benshangul-Gumuz | 46,824 | 20,855 | 132,429 | 8,837 | - | 596,007 |
| Metekel | 21,668 | 6,591 | 25,181 | 2,891 | - | 129,762 |
| Asosa | 18,140 | 10,331 | 96,592 | 4,944 | - | 427,547 |
| Kemeshi | 7,015 | 3,932 | 10,657 | 1,001 | - | 38,697 |
| S.N.N.P.R | 562,667 | 327,947 | 204,181 | 38,140 | - | 1,374,891 |
| Gurage | 71,284 | 22,500 | 4,838 | 1,381 | - | 68,392 |
| Hadiya | 48,096 | 12,408 | 12,922 | 4,066 | - | 132,517 |
| Kembata Tembaro | 14,874 | 4,786 | 1,326 | 2,002 | - | 26,162 |
| Sidama | 60,461 | 15,340 | 6,002 | 5,455 | - | 76,102 |
| Gedio | 4,842 | 5,884 | - | 2,210 | - | 33,471 |
| Wolayita | 53,828 | 8,779 | 16,873 | 2,268 | - | 89,493 |
| South Omo | 38,694 | 44,350 | 70,690 | 1,265 | - | 69,991 |
| Shaka | 6,146 | 5,323 | 1,180 | 253 | - | 60,980 |
| Kaffa | 56,035 | 60,516 | 14,260 | 5,595 | - | 249,843 |
| Gamo Gofa | 84,151 | 71,797 | 16,805 | 2,579 | - | 151,440 |
| Bench-Maji | 34,729 | 21,128 | 3,883 | 1,609 | - | 189,446 |
| Yem Sp. Wereda | 1,593 | 988 | 1,082 | 152 | - | 5,567 |
| Amaro Sp. Wereda | 6,841 | 6,160 | 4,721 | 550 | - | 3,428 |
| Burji Sp. Wereda | 3,456 | 351 | 3,894 | 212 | - | 6,613 |
| Konso Sp. Wereda | 6,179 | 7,340 | 14,228 | 189 | - | 14,485 |
| Dirashe Sp. Wereda | 6,082 | 1,786 | 7,636 | 358 | - | 17,534 |
| Dawro | 26,072 | 8,341 | 1,831 | 1,768 | - | 26,817 |
| Basketo Sp. Wereda | 572 | 489 | 366 | - | - | 2,225 |
| Konta Sp. Wereda | 8,352 | 1,558 | 662 | 137 | - | 8,762 |
| Konta Special | 21,199 | 24,537 | 15,688 | 4,882 | - | 112,276 |
| Alaba Special | 9,180 | 3,588 | 5,292 | 1,209 | - | 29,346 |
| Harari | 3,081 | 173 | 1,196 | 183 | 209 | 2,627 |
| Hundene | 3,081 | 173 | 1,196 | 183 | 209 | 2,627 |
| Addis Ababa | 4,541 | 2,357 | 996 | 907 | - | 33,734 |
| Zone 3 | 3,240 | 1,174 | 802 | 415 | - | 18,428 |
| Zone 6 | 1,302 | 1,183 | 195 | 492 | - | 15,306 |
| Dire Dawa | 6,950 | 3,557 | 10,293 | 90 | 418 | 5,195 |

TABLE 3-25: ANIMAL FEED PRACTICES OF PEASNT HOLDERS – PERCENTAGE USED BY TYPE OF FEED, ZONE, AND REGION

| Geographic Area | Total (%) | Green Fodder | Crop Residue | Improved Feed | Hay | By-Product | Others |
|-------------------|-----------|--------------|--------------|---------------|-------|------------|--------|
| Ethiopia | 100 | 63.83 | 25.87 | 0.14 | 5.92 | 0.96 | 3.29 |
| Tigray | 100 | 40.5 | 39.39 | 0.22 | 14.72 | 1.11 | 4.05 |
| North West Tigray | 100 | 50.07 | 30.43 | 0.31 | 15.61 | 1.31 | 2.28 |
| Central Tigray | 100 | 32.53 | 49.63 | 0.07 | 16.74 | 0.14 | 0.89 |
| Eastern Tigray | 100 | 34.61 | 37.13 | 0.49 | 12.97 | 1.64 | 13.16 |
| Southern Tigray | 100 | 38.4 | 42.6 | 0.17 | 13.87 | 0.7 | 4.26 |
| Western Tigray | 100 | 66.78 | 16.8 | 0.16 | 11.39 | 4.49 | 0.38 |
| Afar | 100 | 86.38 | 7.7 | 0.65 | 3.31 | 0.78 | 1.18 |
| Zone 1 | 100 | 84.6 | 13.48 | 0.03 | 1.37 | 0.1 | 0.43 |
| Zone 3 | 100 | 87.39 | 4.43 | 1.01 | 4.4 | 1.17 | 1.6 |
| Amhara | 100 | 48.8 | 35.57 | 0.12 | 12.81 | 0.84 | 1.86 |
| North Gonder | 100 | 51.5 | 27.26 | 0.18 | 18.24 | 0.65 | 2.17 |
| South Gonder | 100 | 39.79 | 40.72 | 0.16 | 17.59 | 0.61 | 1.13 |
| North Wolo | 100 | 46.89 | 41.28 | 0.07 | 11.37 | 0.12 | 0.27 |
| South Wolo | 100 | 38.41 | 41.86 | 0.07 | 18.63 | 0.13 | 0.91 |
| North Shewa | 100 | 43.03 | 38.05 | 0.11 | 15.99 | 1.38 | 1.44 |
| East Gojam | 100 | 54.21 | 37.82 | 0.11 | 2.68 | 2.2 | 2.98 |
| West Gojam | 100 | 55.44 | 32.54 | 0.11 | 7.38 | 1.08 | 3.44 |
| Waghamera | 100 | 49.85 | 37.18 | 0.2 | 11.66 | 0.13 | 0.98 |
| Agewawie | 100 | 69.26 | 20.79 | 0.05 | 5.56 | 1 | 3.34 |
| Oromia | 100 | 72.04 | 16.62 | 0.04 | 9.78 | 0.11 | 1.41 |
| Oromia | 100 | 71.11 | 22.03 | 0.2 | 2.63 | 1.04 | 3 |
| West Wellega | 100 | 87.24 | 7.63 | 0.02 | 0.17 | 0.94 | 4.01 |
| East Welega | 100 | 82.82 | 11.14 | 0.05 | 0.64 | 0.64 | 4.72 |
| Illubabor | 100 | 91.02 | 3.73 | 0.01 | - | 1.07 | 4.17 |
| Jimma | 100 | 85.62 | 11.18 | 0.02 | 0.09 | 0.14 | 2.95 |
| West Shewa | 100 | 75.35 | 17.21 | 0.06 | 2.26 | 2.49 | 2.63 |
| North Shewa | 100 | 55.67 | 23.77 | 1.18 | 16.16 | 1.8 | 1.42 |
| East Shewa | 100 | 63.92 | 32.6 | 0.11 | 0.88 | 1.4 | 1.1 |
| Arsi | 100 | 65.92 | 27.26 | 0.06 | 2.21 | 1.76 | 2.78 |
| West Harerghe | 100 | 44.34 | 46.51 | 0.04 | 2.99 | 0.2 | 5.92 |
| East Harerghe | 100 | 45.64 | 43.96 | 0.76 | 6.64 | 0.57 | 2.44 |
| Bale | 100 | 85.97 | 10.07 | 0.23 | 0.53 | 1.27 | 1.93 |
| Borena | 100 | 91.21 | 7.56 | - | 0.01 | 0.02 | 1.2 |
| South West Shewa | 100 | 63.01 | 30.98 | 0.03 | 2.83 | 1.57 | 1.59 |
| Guji | 100 | 83.32 | 10.32 | 0.01 | 0.48 | 0.02 | 5.84 |

TABLE 3-25 CONT'D

| Geographic Area | Total (%) | Green Fodder | Crop Residue | Improved Feed | Hay | By-Product | Others |
|-------------------------|-----------|--------------|--------------|---------------|------|------------|--------|
| Somale | 100 | 74.96 | 20.9 | 0.03 | 2.36 | 0.12 | 1.63 |
| Shinele | 100 | 83.8 | 12.85 | 0.11 | - | 1.07 | 2.18 |
| Jijiga | 100 | 70.89 | 23.97 | 0.04 | 3.04 | 0.03 | 2.04 |
| Liben | 100 | 84.57 | 13.95 | - | 0.97 | 0.16 | 0.35 |
| Benshangul-Gumuz | 100 | 88.22 | 8.22 | 0.15 | 0.89 | 0.57 | 1.95 |
| Metekel | 100 | 85.07 | 10.31 | 0.14 | 1.39 | 0.16 | 2.93 |
| Asosa | 100 | 89.9 | 7.44 | 0.2 | 0.7 | 0.89 | 0.87 |
| Kemeshi | 100 | 92.12 | 4.64 | 0.02 | 0.01 | 0.73 | 2.47 |
| S.N.N.P.R | 100 | 74.1 | 18.07 | 0.04 | 1.36 | 0.93 | 5.5 |
| Gurage | 100 | 67.9 | 25.15 | 0.01 | 4.28 | 0.77 | 1.89 |
| Hadiya | 100 | 67.12 | 21.16 | 0.09 | 1.12 | 0.68 | 9.84 |
| Kembata Tembaro | 100 | 54.8 | 28.07 | 0.13 | 2.08 | 1.66 | 13.25 |
| Sidama | 100 | 74.68 | 18.6 | 0.03 | 1.18 | 1.3 | 4.22 |
| Gedio | 100 | 77.23 | 18.48 | 0.04 | 0.89 | 1.28 | 2.07 |
| Wolayita | 100 | 72.87 | 18.69 | 0.11 | 1.24 | 0.36 | 6.73 |
| South Omo | 100 | 86.2 | 8.4 | - | 0.05 | 0.14 | 5.21 |
| Shaka | 100 | 93.61 | 2.46 | - | * | 2.67 | 1.25 |
| Kaffa | 100 | 93.39 | 1.97 | - | - | 2.13 | 2.5 |
| Gamo Gofa | 100 | 72.69 | 17.16 | - | 0.64 | 0.09 | 9.41 |
| Bench-Maji | 100 | 91.68 | 2.41 | 0.01 | 0.02 | 3.04 | 2.84 |
| Yem Sp. Wereda | 100 | 75.6 | 17.25 | 0.06 | 3.69 | 0.38 | 3.01 |
| Amaro Sp. Wereda | 100 | 75.06 | 16.44 | - | 0.26 | 0.02 | 8.22 |
| Burji Sp. Wereda | 100 | 76.67 | 20.47 | 0.04 | 1.02 | 0.05 | 1.75 |
| Konso Sp. Wereda | 100 | 56.97 | 32.58 | 0.03 | 4.44 | 0.03 | 5.96 |
| Dirashe Sp. Wereda | 100 | 71.18 | 20.45 | - | 1.05 | 0.63 | 6.68 |
| Dawro | 100 | 81.09 | 11.18 | 0.04 | 0.63 | 0.22 | 6.84 |
| Basketo Sp. Wereda | 100 | 75.03 | 11.84 | 0.02 | 0.02 | 0.03 | 13.07 |
| Konta Sp. Wereda | 100 | 79.31 | 15.07 | - | 0.28 | 0.05 | 5.29 |
| Konta Special | 100 | 70 | 26.02 | - | 1.64 | 0.49 | 1.85 |
| Alaba Special | 100 | 70.06 | 28.47 | 0.03 | 0.52 | 0.06 | 0.85 |
| Harari | 100 | 35.58 | 59.06 | 0.16 | 0.33 | 4.11 | 0.76 |
| Hundene | 100 | 35.58 | 59.06 | 0.16 | 0.33 | 4.11 | 0.76 |
| Addis Ababa | 100 | 45.48 | 39.01 | 0.34 | 8.96 | 3.71 | 2.5 |
| Zone 3 | 100 | 53.04 | 32.36 | 0.28 | 9.63 | 3.2 | 1.49 |
| Zone 6 | 100 | 28.82 | 53.66 | 0.46 | 7.48 | 4.86 | 4.72 |
| Dire Dawa | 100 | 75.71 | 19.17 | - | 0.1 | 3.18 | 1.85 |

TABLE 3-26: ANIMAL FEED PRACTICES OF PEASNT HOLDERS – NUMBER OF HOLDERS REPORTING BY TYPE OF FEED, ZONE, AND REGION

| Geographic Area | Green Fodder | Crop Residue | Improved Feed | Hay | By-Product | Others |
|-------------------|--------------|--------------|---------------|-----------|------------|-----------|
| Ethiopia | 9,523,678 | 7,842,032 | 63,491 | 2,646,808 | 876,525 | 2,516,827 |
| Tigray | 577,203 | 549,182 | 5,163 | 435,570 | 54,792 | 146,670 |
| North West Tigray | 111,240 | 105,506 | 1,242 | 91,544 | 16,869 | 30,904 |
| Central Tigray | 173,243 | 174,964 | 376 | 143,487 | 2,275 | 18,743 |
| Eastern Tigray | 96,938 | 89,523 | 1,899 | 68,766 | 13,776 | 54,367 |
| Southern Tigray | 149,348 | 145,256 | 1,196 | 104,883 | 9,632 | 40,441 |
| Western Tigray | 46,434 | 33,934 | 449 | 26,890 | 12,240 | 2,216 |
| Afar | 27,637 | 13,009 | 762 | 2,862 | 1,615 | 1,495 |
| Zone 1 | 10,079 | 8,456 | - | 440 | 77 | 344 |
| Zone 3 | 17,559 | 4,553 | 762 | 2,422 | 1,538 | 1,151 |
| Amhara | 2,683,491 | 2,520,282 | 18,825 | 1,439,823 | 216,238 | 531,864 |
| North Gonder | 365,873 | 314,950 | 3,925 | 250,364 | 17,565 | 66,849 |
| South Gonder | 339,891 | 330,063 | 2,759 | 216,024 | 20,548 | 50,788 |
| North Wolo | 255,168 | 245,487 | 602 | 129,491 | 1,515 | 11,917 |
| South Wolo | 434,468 | 420,917 | 2,544 | 311,567 | 2,827 | 38,416 |
| North Shewa | 305,742 | 292,821 | 1,547 | 198,425 | 37,189 | 63,006 |
| East Gojam | 341,448 | 325,258 | 3,172 | 61,430 | 78,987 | 85,630 |
| West Gojam | 359,600 | 346,429 | 2,750 | 151,809 | 41,154 | 144,178 |
| Waghamera | 62,995 | 60,884 | 517 | 35,026 | 322 | 8,259 |
| Agewawie | 153,620 | 133,649 | 1,009 | 52,557 | 15,679 | 54,039 |
| Oromia | 64,685 | 49,824 | - | 33,131 | 453 | 8,784 |
| Oromia | 3,761,438 | 2,876,695 | 31,678 | 534,472 | 401,282 | 930,475 |
| West Wellega | 236,298 | 117,817 | 599 | 2,678 | 15,397 | 85,787 |
| East Welega | 242,442 | 148,436 | 2,434 | 10,670 | 16,650 | 106,166 |
| Illubabor | 175,190 | 52,088 | 212 | - | 23,422 | 68,073 |
| Jimma | 436,977 | 321,319 | 539 | 4,084 | 4,856 | 94,892 |
| West Shewa | 302,264 | 255,128 | 730 | 46,536 | 96,874 | 75,597 |
| North Shewa | 227,270 | 208,983 | 6,806 | 186,060 | 46,688 | 51,129 |
| East Shewa | 286,431 | 244,823 | 382 | 20,768 | 30,865 | 38,405 |
| Arsi | 481,735 | 427,500 | 2,068 | 81,052 | 66,454 | 102,413 |
| West Harerghe | 256,347 | 259,852 | 346 | 42,964 | 3,997 | 87,897 |
| East Harerghe | 359,534 | 358,942 | 9,771 | 91,605 | 18,106 | 59,998 |
| Bale | 304,906 | 180,435 | 7,053 | 16,339 | 44,755 | 62,033 |
| Borena | 128,413 | 53,147 | - | 181 | 458 | 11,040 |
| South West Shewa | 162,292 | 149,408 | 547 | 27,319 | 32,152 | 25,517 |
| Guji | 161,338 | 98,817 | 191 | 4,215 | 606 | 61,529 |

TABLE 3-26 CONT'D

| Geographic Area | Green Fodder | Crop Residue | Improved Feed | Hay | By-Product | Others |
|-------------------------|--------------|--------------|---------------|---------|------------|---------|
| Somale | 101,762 | 81,921 | 56 | 15,803 | 689 | 14,287 |
| Shinele | 5,696 | 2,965 | 56 | - | 364 | 891 |
| Jijiga | 71,003 | 65,189 | - | 13,919 | 249 | 12,643 |
| Liben | 25,063 | 13,768 | - | 1,884 | 76 | 754 |
| Benshangul-Gumuz | 98,171 | 42,134 | 1,207 | 7,990 | 6,235 | 17,668 |
| Metekel | 40,659 | 19,648 | 285 | 4,554 | 919 | 8,645 |
| Asosa | 43,359 | 18,308 | 922 | 3,435 | 4,235 | 5,374 |
| Kemeshi | 14,153 | 4,177 | - | - | 1,081 | 3,649 |
| S.N.N.P.R | 2,231,527 | 1,718,925 | 5,563 | 202,981 | 185,946 | 868,705 |
| Gurage | 242,101 | 220,880 | 259 | 57,353 | 20,569 | 51,969 |
| Hadiya | 191,293 | 178,918 | 712 | 21,423 | 10,875 | 129,427 |
| Kembata Tembaro | 115,367 | 105,014 | 1,188 | 16,574 | 12,966 | 102,022 |
| Sidama | 436,686 | 355,803 | 1,403 | 27,031 | 40,815 | 93,590 |
| Gedio | 82,252 | 61,175 | 161 | 4,536 | 5,604 | 15,094 |
| Wolayita | 254,026 | 220,979 | 1,480 | 30,715 | 6,426 | 100,622 |
| South Omo | 68,358 | 31,577 | - | 244 | 975 | 19,558 |
| Shaka | 23,305 | 7,677 | - | 45 | 6,932 | 5,528 |
| Kaffa | 143,431 | 33,436 | - | - | 32,540 | 66,381 |
| Gamo Gofa | 231,193 | 172,523 | - | 9,343 | 1,272 | 108,960 |
| Bench-Maji | 98,993 | 25,414 | 128 | 291 | 37,969 | 41,103 |
| Yem Sp. Wereda | 13,567 | 12,400 | 24 | 3,051 | 450 | 4,307 |
| Amaro Sp. Wereda | 22,594 | 19,326 | - | 452 | 41 | 12,291 |
| Burji Sp. Wereda | 7,152 | 6,553 | 13 | 497 | 26 | 1,308 |
| Konso Sp. Wereda | 30,715 | 26,269 | 54 | 6,864 | 55 | 12,915 |
| Dirashe Sp. Wereda | 18,371 | 14,258 | - | 837 | 780 | 7,850 |
| Dawro | 71,000 | 62,290 | 93 | 3,834 | 2,606 | 57,406 |
| Basketo Sp. Wereda | 7,599 | 5,662 | - | - | - | 5,101 |
| Konta Sp. Wereda | 15,550 | 11,475 | - | 192 | 55 | 6,347 |
| Konta Special | 126,661 | 117,626 | - | 18,586 | 4,888 | 24,488 |
| Alaba Special | 31,312 | 29,671 | 49 | 1,113 | 102 | 2,438 |
| Harari | 12,803 | 13,685 | 84 | 311 | 2,758 | 810 |
| Hundene | 12,803 | 13,685 | 84 | 311 | 2,758 | 810 |
| Addis Ababa | 13,576 | 12,104 | 153 | 6,867 | 3,697 | 3,233 |
| Zone 3 | 9,424 | 8,053 | 128 | 4,849 | 2,087 | 1,191 |
| Zone 6 | 4,152 | 4,051 | 25 | 2,018 | 1,609 | 2,042 |
| Dire Dawa | 16,070 | 14,094 | - | 128 | 3,273 | 1,621 |

**ANNEX TABLES PRESENTING
ESTIMATES, STANDARD ERRORS, AND COEFFICIENTS OF VARIATION
FOR
SELECTED LIVESTOCK VARIABLES**

[Annex Tables 1 –10]

Annex Tabel 1- Estimates of Livestock, Standard Errors and Coefficients of Variation by Type, and Region

| Geographic Area | CATTLE | | | SHEEP | | | GOATS | | |
|-----------------------|------------|---------|----|------------|---------|----|------------|---------|----|
| | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 38,102,682 | 521,254 | 1 | 16,575,493 | 564,283 | 3 | 13,834,703 | 475,541 | 3 |
| Tigray | 2,546,790 | 112,186 | 4 | 652,521 | 80,422 | 12 | 2,034,710 | 153,274 | 8 |
| Afar | 385,805 | 48,294 | 13 | 238,667 | 41,335 | 17 | 438,083 | 61,449 | 14 |
| Amhara | 9,592,252 | 200,305 | 2 | 6,116,336 | 400,173 | 7 | 3,969,106 | 227,878 | 6 |
| Oromia..... | 16,806,160 | 392,030 | 2 | 5,969,518 | 313,586 | 5 | 4,081,039 | 202,670 | 5 |
| Somali | 462,958 | 42,425 | 9 | 460,116 | 83,470 | 18 | 606,717 | 83,743 | 14 |
| Benshangul-Gumuz..... | 281,496 | 27,877 | 10 | 58,027 | 6,573 | 11 | 218,515 | 20,490 | 9 |
| S.N.N.P..... | 7,881,688 | 245,671 | 3 | 3,007,969 | 210,777 | 7 | 2,317,624 | 312,601 | 13 |
| Gambella | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari..... | 32,736 | 2,926 | 9 | 3,757 | 613 | 16 | 26,356 | 1,665 | 6 |
| Addis Ababa..... | 67,268 | 4,925 | 7 | 16,494 | 2,694 | 16 | 10,218 | 1,955 | 19 |
| Dire-dawa | 45,529 | 3,726 | 8 | 52,088 | 17,872 | 34 | 132,335 | 26,614 | 20 |

Annex Tabel 1-Cont'd

| Geographic Area | HORSES | | | ASSES | | | MULES | | | CAMELS | | |
|-----------------------|-----------|--------|-----|-----------|--------|----|---------|--------|-----|---------|--------|----|
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 1,447,274 | 88,167 | 6 | 3,769,871 | 72,947 | 2 | 321,339 | 16,538 | 5 | 471,145 | 64,570 | 14 |
| Tigray..... | 2,615 | 937 | 36 | 368,312 | 16,697 | 5 | 10,062 | 2,297 | 23 | 38,562 | 12,582 | 33 |
| Afar | - | - | - | 14,148 | 1,718 | 12 | 382 | 138 | 36 | 124,536 | 25,422 | 20 |
| Amhara | 250,679 | 30,429 | 12 | 1,356,111 | 39,825 | 3 | 90,652 | 9,344 | 10 | 20,317 | 5,108 | 25 |
| Oromia | 899,998 | 77,719 | 9 | 1,605,134 | 54,930 | 3 | 149,575 | 12,147 | 8 | 113,527 | 25,086 | 22 |
| Somali | 157 | 178 | 113 | 86,389 | 7,204 | 8 | 135 | 143 | 106 | 163,494 | 51,995 | 32 |
| Benshangul-Gumuz..... | 165 | 155 | 94 | 40,789 | 4,177 | 10 | 1,521 | 500 | 33 | - | - | - |
| S.N.N.P..... | 292,773 | 28,395 | 10 | 266,505 | 19,052 | 7 | 68,221 | 5,746 | 8 | 216 | 206 | 95 |
| Gambella..... | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari..... | - | - | - | 6,483 | 919 | 14 | - | - | - | 2,543 | 1,350 | 53 |
| Addis Ababa..... | 859 | 195 | 23 | 15,884 | 1,213 | 8 | 704 | 231 | 33 | - | - | - |
| Dire-dawa..... | 27 | 28 | 104 | 10,118 | 1,198 | 12 | 87 | 50 | 57 | 7,948 | 1,986 | 25 |

Annex Tabel 2- Estimates of Cattle, Standard Errors and Coefficients of Variation by Age group, and Region

Male Cattl

| Geographic Area | <6MONTHS | | | 6MONTHS -<1YEAR | | | 1-<3YEARS | | | 3-<10YEARS | | | 10YEARS & OLDER | | |
|------------------------|-----------|--------|----|-----------------|--------|----|-----------|--------|----|------------|---------|----|-----------------|--------|----|
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 1,786,233 | 38,917 | 2 | 1,568,324 | 34,881 | 2 | 2,898,690 | 56,220 | 2 | 9,988,239 | 130,452 | 1 | 618,780 | 30,892 | 5 |
| Tigray..... | 94,349 | 8,443 | 9 | 108,990 | 7,208 | 7 | 185,406 | 10,610 | 6 | 786,292 | 25,484 | 3 | 61,093 | 6,173 | 10 |
| Afar | 23,915 | 2,917 | 12 | 10,968 | 1,830 | 17 | 15,617 | 2,305 | 15 | 26,152 | 3,276 | 13 | 793 | 345 | 44 |
| Amhara | 403,140 | 17,119 | 4 | 325,904 | 15,098 | 5 | 697,799 | 22,592 | 3 | 3,177,522 | 62,006 | 2 | 298,353 | 21,435 | 7 |
| Oromia | 821,520 | 29,077 | 4 | 689,355 | 25,431 | 4 | 1,349,018 | 43,050 | 3 | 4,363,079 | 98,822 | 2 | 219,888 | 20,742 | 9 |
| Somali | 25,505 | 3,140 | 12 | 22,209 | 3,023 | 14 | 28,303 | 2,855 | 10 | 77,233 | 6,294 | 8 | 1,276 | 780 | 61 |
| Benshangul-Gumuz | 12,217 | 1,738 | 14 | 12,773 | 1,447 | 11 | 21,348 | 2,386 | 11 | 75,525 | 8,222 | 11 | 2,609 | 667 | 26 |
| S.N.N.P..... | 398,985 | 16,823 | 4 | 392,636 | 16,592 | 4 | 588,802 | 25,776 | 4 | 1,446,209 | 51,322 | 4 | 30,985 | 4,976 | 16 |
| Gambella..... | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | 2,473 | 358 | 14 | 1,685 | 244 | 14 | 2,702 | 330 | 12 | 5,063 | 1,011 | 20 | - | - | - |
| Addis Ababa..... | 1,370 | 279 | 20 | 1,598 | 231 | 14 | 5,426 | 719 | 13 | 25,490 | 2,102 | 8 | 3,783 | 757 | 20 |
| Diredawa..... | 2,759 | 361 | 13 | 2,207 | 295 | 13 | 4,269 | 512 | 12 | 5,675 | 653 | 12 | - | - | - |

Annex Tabel 2- Cont'd

Female Cattle

| Geographic Area | <6MONTHS | | | 6MONTHS -<1YEAR | | | 1-<3YEARS | | | 3-<10YEARS | | | 10YEARS & OLDER | | |
|------------------------|-----------|--------|----|-----------------|--------|----|-----------|--------|----|------------|---------|----|-----------------|--------|----|
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 1,940,906 | 44,459 | 2 | 1,691,778 | 40,017 | 2 | 3,618,448 | 76,776 | 2 | 13,303,419 | 210,000 | 2 | 687,865 | 34,144 | 5 |
| Tigray..... | 111,304 | 10,357 | 9 | 120,953 | 8,945 | 7 | 211,616 | 16,745 | 8 | 819,246 | 41,157 | 5 | 47,541 | 6,749 | 14 |
| Afar | 46,440 | 6,131 | 13 | 28,301 | 5,492 | 19 | 52,105 | 8,371 | 16 | 173,386 | 21,900 | 13 | 8,130 | 2,188 | 27 |
| Amhara | 424,514 | 17,990 | 4 | 340,643 | 15,210 | 4 | 774,999 | 27,347 | 4 | 2,931,923 | 75,645 | 3 | 217,453 | 19,263 | 9 |
| Oromia | 907,740 | 33,151 | 4 | 734,367 | 28,525 | 4 | 1,635,033 | 57,506 | 4 | 5,813,910 | 159,575 | 3 | 272,250 | 22,045 | 8 |
| Somali | 32,491 | 4,438 | 14 | 26,952 | 3,898 | 14 | 42,116 | 5,837 | 14 | 204,488 | 20,179 | 10 | 2,385 | 1,188 | 50 |
| Benshangul-Gumuz | 14,061 | 1,807 | 13 | 15,608 | 1,819 | 12 | 23,956 | 2,687 | 11 | 100,922 | 10,410 | 10 | 2,476 | 649 | 26 |
| S.N.N.P..... | 398,090 | 19,642 | 5 | 419,039 | 20,673 | 5 | 862,750 | 38,039 | 4 | 3,208,159 | 101,083 | 3 | 136,035 | 16,015 | 12 |
| Gambella..... | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | 2,175 | 280 | 13 | 1,797 | 253 | 14 | 4,033 | 440 | 11 | 12,561 | 1,157 | 9 | 249 | 114 | 46 |
| Addis Ababa..... | 1,985 | 362 | 18 | 2,205 | 327 | 15 | 5,467 | 589 | 11 | 19,011 | 1,531 | 8 | 933 | 209 | 22 |
| Diredawa..... | 2,107 | 372 | 18 | 1,914 | 292 | 15 | 6,372 | 732 | 11 | 19,813 | 1,809 | 9 | 413 | 142 | 34 |

Annex Tabel 3- Estimates of Sheep, Standard Errors and Coefficients of Variation by Age group, and Region

Male Sheep

| Geographic Area | <6MONTHS | | | 6MONTHS - <1YEAR | | | 1-<2YEARS | | | 2 YEARS & OLDER | | |
|------------------------|-----------|--------|----|------------------|--------|----|-----------|--------|----|-----------------|--------|----|
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 2,138,852 | 76,183 | 4 | 726,512 | 33,499 | 5 | 495,247 | 32,565 | 7 | 755,868 | 48,325 | 6 |
| Tigray..... | 81,451 | 11,905 | 15 | 24,771 | 3,778 | 15 | 21,345 | 3,915 | 18 | 29,377 | 4,895 | 17 |
| Afar | 19,160 | 2,587 | 14 | 11,344 | 2,138 | 19 | 7,160 | 1,683 | 24 | 16,296 | 4,229 | 26 |
| Amhara | 739,396 | 49,451 | 7 | 221,823 | 17,836 | 8 | 178,720 | 17,133 | 10 | 328,139 | 35,763 | 11 |
| Oromia | 900,158 | 52,935 | 6 | 294,096 | 22,201 | 8 | 137,474 | 15,352 | 11 | 182,913 | 18,195 | 10 |
| Somali | 36,702 | 4,737 | 13 | 23,718 | 5,425 | 23 | 24,951 | 7,936 | 32 | 36,378 | 11,286 | 31 |
| Benshangul-Gumuz | 6,754 | 1,148 | 17 | 3,787 | 693 | 18 | 2,197 | 463 | 21 | 3,540 | 764 | 22 |
| S.N.N.P. | 346,556 | 19,516 | 6 | 143,148 | 16,151 | 11 | 119,616 | 21,184 | 18 | 154,639 | 23,498 | 15 |
| Gambella..... | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | 370 | 103 | 28 | 152 | 78 | 51 | 149 | 65 | 44 | 197 | 84 | 43 |
| Addis Ababa | 1,944 | 406 | 21 | 882 | 297 | 34 | 1,098 | 330 | 30 | 1,212 | 290 | 24 |
| Dire-dawa..... | 6,359 | 1,765 | 28 | 2,790 | 1,212 | 43 | 2,538 | 1,027 | 40 | 3,178 | 1,802 | 57 |

Annex Tabel 3-Cont'd

Female Sheep

| Geographic Area | <6MONTHS | | | 6MONTHS - <1YEAR | | | 1-<2YEARS | | | 2 YEARS & OLDER | | |
|------------------------|-----------|--------|----|------------------|--------|----|-----------|--------|----|-----------------|---------|----|
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 2,281,451 | 82,281 | 4 | 1,147,189 | 50,689 | 4 | 1,294,073 | 60,038 | 5 | 7,736,302 | 271,665 | 4 |
| Tigray..... | 85,100 | 12,408 | 15 | 40,011 | 6,301 | 16 | 62,702 | 11,516 | 18 | 307,764 | 36,392 | 12 |
| Afar | 33,761 | 5,408 | 16 | 24,883 | 4,219 | 17 | 28,822 | 5,121 | 18 | 97,240 | 18,449 | 19 |
| Amhara | 811,015 | 56,021 | 7 | 384,856 | 32,800 | 9 | 410,925 | 35,827 | 9 | 3,041,463 | 205,909 | 7 |
| Oromia | 915,248 | 53,903 | 6 | 403,348 | 29,289 | 7 | 434,905 | 31,785 | 7 | 2,701,375 | 144,916 | 5 |
| Somali | 47,532 | 9,533 | 20 | 48,583 | 9,827 | 20 | 49,482 | 12,580 | 25 | 192,770 | 29,775 | 15 |
| Benshangul-Gumuz | 9,041 | 1,390 | 15 | 3,214 | 532 | 17 | 5,423 | 834 | 15 | 24,071 | 2,607 | 11 |
| S.N.N.P. | 370,819 | 21,096 | 6 | 236,521 | 21,834 | 9 | 294,268 | 31,423 | 11 | 1,342,402 | 88,377 | 7 |
| Gambella..... | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | 473 | 136 | 29 | 199 | 66 | 33 | 425 | 128 | 30 | 1,793 | 305 | 17 |
| Addis Ababa | 1,991 | 471 | 24 | 1,044 | 223 | 21 | 1,180 | 267 | 23 | 7,143 | 1,304 | 18 |
| Dire-dawa..... | 6,471 | 2,221 | 34 | 4,530 | 2,122 | 47 | 5,941 | 2,325 | 39 | 20,281 | 5,693 | 28 |

Annex Tabel 4- Estimates of Goats, Standard Errors and Coefficients of Variation by Age group, and Region

Male Goats

| Geographic Area | <6MONTHS | | | 6MONTHS - <1YEAR | | | 1-<2YEARS | | | 2 YEARS & OLDER | | |
|------------------------|-----------|--------|----|------------------|--------|----|-----------|--------|----|-----------------|--------|----|
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 1,746,658 | 55,479 | 3 | 766,329 | 34,486 | 5 | 578,899 | 36,284 | 6 | 1,010,264 | 59,472 | 6 |
| Tigray..... | 255,488 | 20,433 | 8 | 92,793 | 9,568 | 10 | 93,602 | 10,719 | 11 | 158,396 | 17,401 | 11 |
| Afar | 33,346 | 4,040 | 12 | 18,523 | 2,741 | 15 | 15,195 | 2,560 | 17 | 25,496 | 5,012 | 20 |
| Amhara | 554,229 | 33,314 | 6 | 211,167 | 15,788 | 7 | 156,196 | 12,534 | 8 | 316,942 | 27,621 | 9 |
| Oromia | 571,339 | 31,044 | 5 | 238,608 | 15,480 | 6 | 141,083 | 12,319 | 9 | 222,776 | 20,834 | 9 |
| Somali | 52,576 | 4,964 | 9 | 30,134 | 5,772 | 19 | 30,991 | 7,923 | 26 | 46,184 | 8,834 | 19 |
| Benshangul-Gumuz | 27,009 | 2,688 | 10 | 14,234 | 1,912 | 13 | 8,125 | 1,409 | 17 | 15,132 | 2,179 | 14 |
| S.N.N.P..... | 232,139 | 23,058 | 10 | 151,357 | 23,704 | 16 | 126,054 | 28,592 | 23 | 216,918 | 43,847 | 20 |
| Gambella..... | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | 3,924 | 412 | 11 | 1,810 | 255 | 14 | 819 | 154 | 19 | 1,016 | 181 | 18 |
| Addis Ababa | 1,112 | 322 | 29 | 689 | 244 | 35 | 848 | 316 | 37 | 641 | 238 | 37 |
| Dire-dawa..... | 15,497 | 2,581 | 17 | 7,012 | 1,520 | 22 | 5,985 | 1,956 | 33 | 6,763 | 2,560 | 38 |

Annex Tabel 4 – Cont'd

Female Goats

| Geographic Area | <6MONTHS | | | 6MONTHS - <1YEAR | | | 1-<2YEARS | | | 2 YEARS & OLDER | | |
|------------------------|-----------|--------|----|------------------|--------|----|-----------|--------|----|-----------------|---------|----|
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 1,895,985 | 64,844 | 3 | 1,074,240 | 49,452 | 5 | 1,162,820 | 61,101 | 5 | 5,599,507 | 185,111 | 3 |
| Tigray..... | 278,406 | 26,559 | 10 | 146,727 | 15,172 | 10 | 178,117 | 20,631 | 12 | 831,181 | 57,369 | 7 |
| Afar | 62,947 | 8,960 | 14 | 49,150 | 7,642 | 16 | 54,233 | 8,837 | 16 | 179,194 | 26,430 | 15 |
| Amhara | 578,746 | 37,441 | 6 | 269,179 | 20,157 | 7 | 259,623 | 20,245 | 8 | 1,623,024 | 101,215 | 6 |
| Oromia | 597,648 | 33,765 | 6 | 312,233 | 24,447 | 8 | 333,281 | 24,836 | 7 | 1,664,071 | 84,506 | 5 |
| Somali | 75,748 | 10,741 | 14 | 54,184 | 9,912 | 18 | 63,408 | 12,280 | 19 | 253,492 | 30,886 | 12 |
| Benshangul-Gumuz | 29,106 | 3,063 | 11 | 22,660 | 2,890 | 13 | 17,155 | 2,588 | 15 | 85,095 | 8,469 | 10 |
| S.N.N.P..... | 250,459 | 27,214 | 11 | 207,187 | 32,224 | 16 | 239,933 | 45,044 | 19 | 893,577 | 108,517 | 12 |
| Gambella..... | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | 3,800 | 374 | 10 | 2,170 | 257 | 12 | 1,402 | 275 | 20 | 11,415 | 747 | 7 |
| Addis Ababa | 1,469 | 327 | 22 | 652 | 161 | 25 | 445 | 161 | 36 | 4,361 | 831 | 19 |
| Dire-dawa..... | 17,658 | 3,392 | 19 | 10,099 | 2,815 | 28 | 15,223 | 4,048 | 27 | 54,097 | 9,346 | 17 |

Annex Tabel 5- Estimates of Horses, Standard Errors and Coefficients of Variation by Age group, and Region

| Geographic Area | MALE | | | | | | FEMALE | | | | | |
|------------------------|---------|--------|----|----------------|--------|-----|---------|--------|----|----------------|--------|----|
| | <3YEARS | | | 3YEARS & OLDER | | | <3YEARS | | | 3YEARS & OLDER | | |
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 148,870 | 11,185 | 8 | 553,873 | 36,403 | 7 | 149,788 | 12,034 | - | 594,743 | 39,757 | - |
| Tigray..... | - | - | - | 1,540 | 670 | 44 | 479 | 288 | - | 596 | 339 | - |
| Afar | - | - | - | - | - | - | - | - | - | - | - | - |
| Amhara | 20,848 | 3,305 | 16 | 95,763 | 13,121 | 14 | 23,121 | 3,838 | - | 110,947 | 14,735 | - |
| Oromia | 99,936 | 10,030 | 10 | 341,732 | 32,357 | 9 | 97,836 | 10,644 | - | 360,494 | 33,577 | - |
| Somali | - | - | - | 52 | 59 | 113 | 52 | 59 | - | 52 | 59 | - |
| Benshangul-Gumuz | - | - | - | - | - | - | - | - | - | 165 | 155 | - |
| S.N.N.P..... | 28,087 | 3,684 | 13 | 113,956 | 10,276 | 9 | 28,273 | 4,086 | - | 122,458 | 15,361 | - |
| Gambella..... | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | - | - | - | - | - | - | - | - | - | - | - | - |
| Addis Ababa | - | - | - | 829 | 193 | 23 | - | - | - | 31 | 28 | - |
| Diredawa..... | - | - | - | - | - | - | 27 | 28 | - | - | - | - |

Annex Tabel 6- Estimates of Asses, Standard Errors and Coefficients of Variation by Age group, and Region

| Geographic Area | MALE | | | | | | FEMALE | | | | | |
|------------------------|---------|--------|----|----------------|--------|----|---------|--------|-----|----------------|--------|-----|
| | <3YEARS | | | 3YEARS & OLDER | | | <3YEARS | | | 3YEARS & OLDER | | |
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 450,726 | 15,459 | 3 | 1,311,066 | 39,340 | 3 | 448,608 | 15,760 | 12 | 1,559,471 | 38,129 | 9 |
| Tigray..... | 38,546 | 4,121 | 11 | 171,190 | 12,473 | 7 | 31,815 | 3,205 | 70 | 126,761 | 8,058 | 63 |
| Afar | 1,920 | 312 | 16 | 3,454 | 499 | 14 | 1,943 | 367 | 19 | 6,830 | 893 | 13 |
| Amhara | 185,485 | 9,531 | 5 | 364,607 | 21,127 | 6 | 199,734 | 11,111 | 22 | 606,283 | 22,045 | 17 |
| Oromia | 180,142 | 10,660 | 6 | 587,761 | 29,422 | 5 | 179,630 | 10,175 | 17 | 657,600 | 27,546 | 14 |
| Somali | 11,510 | 1,580 | 14 | 38,120 | 4,048 | 11 | 6,288 | 1,253 | 133 | 30,471 | 3,193 | 123 |
| Benshangul-Gumuz | 4,046 | 831 | 21 | 23,555 | 2,525 | 11 | 3,813 | 821 | 22 | 9,375 | 1,500 | 110 |
| S.N.N.P..... | 26,591 | 3,756 | 14 | 103,581 | 7,434 | 7 | 22,714 | 2,933 | 27 | 113,619 | 11,409 | 23 |
| Gambella..... | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | 609 | 163 | 27 | 3,129 | 642 | 21 | 640 | 188 | 29 | 2,105 | 408 | 19 |
| Addis Ababa | 701 | 197 | 28 | 12,482 | 1,073 | 9 | 575 | 155 | 27 | 2,126 | 396 | 111 |
| Diredawa..... | 1,177 | 277 | 24 | 3,187 | 454 | 14 | 1,455 | 284 | 123 | 4,299 | 588 | 14 |

Annex Table 7- Estimates of Mules, Standard Errors and Coefficients of Variation by Age group, and Region

| Geographic Area | MALE | | | | | | FEMALE | | | | | |
|------------------------|---------|-------|-----|----------------|-------|----|---------|-------|-----|----------------|-------|-----|
| | <3YEARS | | | 3YEARS & OLDER | | | <3YEARS | | | 3YEARS & OLDER | | |
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 22,289 | 3,056 | 14 | 134,293 | 8,968 | 7 | 27,589 | 3,608 | 13 | 137,168 | 8,841 | 6 |
| Tigray..... | 272 | 274 | 101 | 2,973 | 919 | 31 | - | - | - | 6,816 | 1,820 | 27 |
| Afar | - | - | - | 235 | 94 | 40 | - | - | - | 147 | 69 | 47 |
| Amhara | 6,581 | 1,519 | 23 | 28,818 | 4,949 | 17 | 13,133 | 2,431 | 19 | 42,120 | 5,053 | 12 |
| Oromia | 10,728 | 2,265 | 21 | 67,229 | 6,660 | 10 | 11,977 | 2,566 | 21 | 59,641 | 6,216 | 10 |
| Somali | 68 | 72 | 106 | - | - | - | - | - | - | 68 | 72 | 106 |
| Benshangul-Gumuz | - | - | - | 777 | 283 | 36 | - | - | - | 744 | 273 | 37 |
| S.N.N.P. | 4,539 | 1,349 | 30 | 33,621 | 3,257 | 10 | 2,453 | 722 | 29 | 27,610 | 3,257 | 12 |
| Gambella..... | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | - | - | - | - | - | - | - | - | - | - | - | - |
| Addis Ababa | 101 | 49 | 48 | 579 | 201 | 35 | - | - | - | 24 | 25 | 106 |
| Dire-dawa..... | - | - | - | 61 | 44 | 71 | 26 | 26 | 100 | - | - | - |

Annex Table 8- Estimates of Camels, Standard Errors and Coefficients of Variation by Age group, and Region

| Geographic Area | MALE | | | | | | FEMALE | | | | | |
|------------------------|---------|-------|----|----------------|--------|----|---------|--------|----|----------------|--------|----|
| | <4YEARS | | | 4YEARS & OLDER | | | <4YEARS | | | 4YEARS & OLDER | | |
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 53,855 | 7,735 | 14 | 123,064 | 17,184 | 14 | 76,026 | 13,118 | 17 | 218,200 | 34,210 | 16 |
| Tigray..... | 1,514 | 769 | 51 | 35,390 | 11,955 | 34 | 385 | 321 | 83 | 1,273 | 707 | 56 |
| Afar | 9,304 | 1,608 | 17 | 14,203 | 2,425 | 17 | 28,808 | 6,293 | 22 | 72,221 | 16,489 | 23 |
| Amhara | 1,960 | 780 | 40 | 16,699 | 4,605 | 28 | - | - | - | 1,658 | 1,081 | 65 |
| Oromia | 20,636 | 4,878 | 24 | 16,320 | 4,377 | 27 | 21,142 | 5,240 | 25 | 55,430 | 11,963 | 22 |
| Somali | 18,876 | 5,667 | 30 | 37,381 | 10,273 | 27 | 23,759 | 10,226 | 43 | 83,479 | 27,428 | 33 |
| Benshangul-Gumuz | - | - | - | - | - | - | - | - | - | - | - | - |
| S.N.N.P. | - | - | - | 108 | 103 | 95 | - | - | - | 108 | 103 | 95 |
| Gambella..... | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | 390 | 234 | 60 | 201 | 144 | 72 | 902 | 556 | 62 | 1,050 | 600 | 57 |
| Addis Ababa | - | - | - | - | - | - | - | - | - | - | - | - |
| Dire-dawa..... | 1,176 | 287 | 24 | 2,762 | 753 | 27 | 1,030 | 234 | 23 | 2,980 | 969 | 33 |

Annex Tabel 9- Estimates of Poultry, Standard Errors and Coefficients of Variation By Type, and Region

| Geographic Area | Total Poultry | | | Cocks | | | Cockerels | | | Pullets | | | Non-laying Hens | | | Chicks | | | Laying Hens | | |
|------------------------|---------------|---------|----|-----------|--------|----|-----------|--------|----|-----------|--------|----|-----------------|--------|----|------------|---------|----|-------------|---------|----|
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 35,656,385 | 538,129 | 2 | 3,054,730 | 64,116 | 2 | 2,268,705 | 70,612 | 3 | 3,473,259 | 90,195 | 3 | 1,294,577 | 58,891 | 5 | 15,959,783 | 313,056 | 2 | 9,605,331 | 132,975 | 1 |
| Tigray | 3,725,111 | 172,818 | 5 | 276,409 | 15,891 | 6 | 288,938 | 28,401 | 10 | 436,586 | 38,374 | 9 | 218,848 | 16,013 | 7 | 1,644,603 | 92,592 | 6 | 859,726 | 29,827 | 3 |
| Afar | 49,285 | 6,848 | 14 | 5,471 | 815 | 15 | 2,446 | 459 | 19 | 4,073 | 798 | 20 | 3,169 | 712 | 22 | 20,862 | 3,478 | 17 | 13,264 | 2,185 | 16 |
| Amhara | 11,243,773 | 313,037 | 3 | 960,894 | 34,748 | 4 | 556,999 | 37,376 | 7 | 914,636 | 48,051 | 5 | 391,835 | 37,901 | 10 | 5,580,664 | 209,646 | 4 | 2,838,747 | 73,189 | 3 |
| Oromia | 12,761,341 | 344,163 | 3 | 1,128,826 | 45,578 | 4 | 805,757 | 42,759 | 5 | 1,176,931 | 52,164 | 4 | 491,695 | 39,402 | 8 | 5,488,463 | 186,126 | 3 | 3,669,670 | 92,869 | 3 |
| Somali | 173,187 | 29,104 | 17 | 24,279 | 4,990 | 21 | 11,314 | 3,209 | 28 | 16,202 | 4,754 | 29 | 10,918 | 3,192 | 29 | 49,010 | 8,791 | 18 | 61,464 | 10,725 | 17 |
| Benshangul-Gumuz | 785,357 | 40,280 | 5 | 58,954 | 4,084 | 7 | 57,395 | 6,142 | 11 | 83,637 | 7,219 | 9 | 26,844 | 4,956 | 18 | 387,769 | 22,808 | 6 | 170,758 | 10,487 | 6 |
| S.N.N.P. | 6,779,900 | 201,785 | 3 | 585,471 | 23,036 | 4 | 537,822 | 30,081 | 6 | 828,229 | 39,436 | 5 | 146,983 | 13,672 | 9 | 2,745,542 | 101,066 | 4 | 1,935,853 | 50,745 | 3 |
| Gambella | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | 31,590 | 3,193 | 10 | 3,921 | 437 | 11 | 2,872 | 611 | 21 | 4,294 | 788 | 18 | 1,478 | 457 | 31 | 8,759 | 1,413 | 16 | 10,265 | 1,048 | 10 |
| Addis Ababa | 62,364 | 3,925 | 6 | 5,577 | 428 | 8 | 3,512 | 697 | 20 | 4,815 | 736 | 15 | 1,599 | 438 | 27 | 21,899 | 2,783 | 13 | 24,962 | 1,517 | 6 |
| Diredawa | 44,479 | 4,173 | 9 | 4,928 | 574 | 12 | 1,651 | 376 | 23 | 3,857 | 826 | 21 | 1,209 | 401 | 33 | 12,213 | 1,676 | 14 | 20,622 | 1,792 | 9 |

Annex Tabel 10- Estimates of Beehives, Standard Errors and Coefficients of Variation By Type, and Region

| Geographic Area | ALL BEEHIVES | | | TRADITIONAL | | | INTERMEDIATE | | | MODERN | | |
|------------------------|--------------|---------|----|-------------|---------|----|--------------|-------|-----|--------|-------|----|
| | Number | SE | CV | Number | SE | CV | Number | SE | CV | Number | SE | CV |
| Ethiopia | 4,228,612 | 286,829 | 7 | 4,205,824 | 286,804 | 7 | 15,341 | 5,121 | 33 | 7,448 | 2,128 | 29 |
| Tigray | 173,948 | 16,778 | 10 | 171,522 | 16,745 | 10 | 923 | 548 | 59 | 1,503 | 713 | 47 |
| Afar | 674 | 364 | 54 | 436 | 180 | 41 | 238 | 250 | 105 | - | - | - |
| Amhara | 766,383 | 56,387 | 7 | 758,761 | 56,294 | 7 | 6,680 | 3,652 | 55 | 942 | 566 | 60 |
| Oromia | 2,289,877 | 265,139 | 12 | 2,280,900 | 265,142 | 12 | 5,543 | 3,461 | 62 | 3,435 | 1,778 | 52 |
| Somali | 9,186 | 2,993 | 33 | 9,186 | 2,993 | 33 | - | - | - | - | - | - |
| Benshangul-Gumuz | 156,409 | 30,593 | 20 | 155,638 | 30,587 | 20 | 474 | 457 | 96 | 297 | 289 | 97 |
| S.N.N.P. | 829,795 | 86,981 | 10 | 827,194 | 86,962 | 11 | 1,331 | 570 | 43 | 1,270 | 675 | 53 |
| Gambella | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Harari | 977 | 221 | 23 | 951 | 219 | 23 | 26 | 28 | 107 | - | - | - |
| Addis Ababa | 692 | 220 | 32 | 566 | 180 | 32 | 126 | 122 | 97 | - | - | - |
| Diredawa | 670 | 222 | 33 | 670 | 222 | 33 | - | - | - | - | - | - |

APPENDIX I

Number of Planned and Actually Covered Sampling Units

APPENDIX I. Number of Planned and Actually Covered Sampling Units (EAs & Households)
of the 2003/4 (1996 E.C.) annual agricultural sample survey (Meher Season).

| Region | Stratum | Enumeration Areas | | Households | |
|---------------|----------------------|-------------------|------------|--------------|--------------|
| | Zone/Sp.wereda | Planned | Covered | Planned | Covered |
| Tigray | North Western Tigray | 32 | 32 | 800 | 800 |
| | Central Tigray | 36 | 36 | 900 | 900 |
| | Eastern Tigray | 32 | 32 | 800 | 800 |
| | Southern Tigray | 36 | 35 | 900 | 875 |
| | Western Tigray | 28 | 27 | 700 | 675 |
| | Region Total | | 164 | 162 | 4100 |
| Afar | Zone One | 28 | 28 | 700 | 683 |
| | Zone Three | 28 | 28 | 700 | 697 |
| | Region Total | 56 | 56 | 1400 | 1380 |
| Amhara | North Gondar | 40 | 40 | 1000 | 1000 |
| | South Gondar | 40 | 39 | 1000 | 975 |
| | North Wello | 40 | 40 | 1000 | 1000 |
| | South Wello | 48 | 48 | 1200 | 1199 |
| | North Shewa | 40 | 40 | 1000 | 1000 |
| | East Gojam | 44 | 44 | 1100 | 1100 |
| | West Gojam | 44 | 44 | 1100 | 1100 |
| | Wag Hemira | 32 | 32 | 800 | 775 |
| | Awi | 36 | 36 | 900 | 899 |
| | Oromia | 32 | 32 | 800 | 800 |
| | Region Total | 396 | 395 | 9900 | 9848 |
| Oromia | West Wellega | 40 | 40 | 1000 | 1000 |
| | East Wellega | 36 | 36 | 900 | 899 |
| | Illubabor | 36 | 36 | 900 | 899 |
| | Jimma | 44 | 44 | 1100 | 1100 |
| | West Shewa | 36 | 36 | 900 | 900 |
| | North Shewa | 36 | 36 | 900 | 900 |
| | East Shewa | 40 | 40 | 1000 | 1000 |
| | Arsi | 44 | 44 | 1100 | 1100 |
| | West Harerghe | 36 | 36 | 900 | 900 |
| | East Harerghe | 44 | 44 | 1100 | 1098 |
| | Bale | 36 | 36 | 900 | 897 |
| | Borena | 36 | 36 | 900 | 899 |
| | South West Shewa | 36 | 36 | 900 | 900 |
| | Guji | 36 | 36 | 900 | 895 |
| | Region Total | 536 | 536 | 13400 | 13387 |

APPENDIX I Cont'd

| Region | Stratum | Enumeration Areas | | Households | |
|--------------------------|-------------------------|-------------------|-------------|--------------|--------------|
| | Zone/Sp.wereda | Planned | Covered | Planned | Covered |
| Somali | Shinile | 24 | 24 | 600 | 598 |
| | Jijiga | 32 | 32 | 800 | 800 |
| | Liben | 28 | 28 | 700 | 693 |
| | Region Total | 84 | 84 | 2100 | 2091 |
| Benishangul-Gumuz | Metekel | 28 | 28 | 700 | 689 |
| | Asosa | 28 | 28 | 700 | 700 |
| | Kemashi | 28 | 28 | 700 | 694 |
| | Region Total | 84 | 84 | 2100 | 2083 |
| SNNP | Guraghe | 36 | 36 | 900 | 900 |
| | Hadiya | 32 | 32 | 800 | 800 |
| | Kembata_Tambaro | 32 | 32 | 800 | 800 |
| | Sidama | 44 | 44 | 1100 | 1100 |
| | Gedeo | 32 | 32 | 800 | 799 |
| | Wolayita | 36 | 36 | 900 | 900 |
| | South Omo | 32 | 32 | 800 | 800 |
| | Shaka | 28 | 28 | 700 | 700 |
| | Keffa | 32 | 32 | 800 | 799 |
| | Gamo_Gofa | 36 | 36 | 900 | 899 |
| | Benchi_Maji | 32 | 32 | 800 | 796 |
| | Yem Specia Wereda | 24 | 24 | 600 | 600 |
| | Amaro Special W. | 24 | 24 | 600 | 600 |
| | Burji Special Wereda | 24 | 24 | 600 | 599 |
| | Konso Special Wereda. | 24 | 24 | 600 | 598 |
| | Derashe Special Wereda. | 24 | 24 | 600 | 600 |
| | Dawro | 32 | 32 | 800 | 800 |
| | Basketo Special Wereda. | 24 | 24 | 600 | 600 |
| | Konta Special Wereda. | 24 | 23 | 600 | 575 |
| | Siltie | 28 | 28 | 700 | 699 |
| | Alaba Special Wereda. | 24 | 24 | 600 | 600 |
| | Region Total | 624 | 623 | 15600 | 15564 |
| Gambella | Zone One | 28 | - | 700 | - |
| | Zone Two | 28 | - | 700 | - |
| | Region Total | 56 | - | 1400 | - |
| Harari | Harari | 24 | 24 | 600 | 598 |
| Addis Ababa | Addis Ababa | 24 | 24 | 600 | 600 |
| Dire Dawa | Dire Dawa | 24 | 24 | 600 | 600 |
| Country Total | | 2072 | 2012 | 51800 | 50201 |

APPENDIX II

Estimation Procedures of Totals, Ratios, and Sampling Errors

APPENDIX II Estimation Procedures of Totals, Ratios and Sampling Errors

The following formulas were used to estimate total livestock and its products, and ratio of specific characteristics in a stratum.

1. For estimating Total livestock and products:

$$\hat{A}_h = \sum_{i=1}^{n_h} W_{hi} \sum_{j=1}^{h_{hi}} y_{hij} = \sum_{i=1}^{n_h} W_{hi} y_{hi}$$

in which, $W_{hi} = \frac{M_h H_{hi}}{n_h m_{hi} h_{hi}}$ is the basic weight.

Where:

h represents the stratum

n_h is the total number of sample EAs successfully covered in the h^{th} stratum.

M_h is the measure of size of the h^{th} stratum as obtained from the sampling frame.

m_{hi} is the measure of size of the i^{th} sample EA in the h^{th} stratum obtained from the sampling frame.

H_{hi} is the total number of agricultural households of the i^{th} sample EA in the h^{th} stratum.

h_{hi} is the number of sample agricultural households successfully covered in the i^{th} sample EA in the h^{th} stratum.

y_{hij} is the value of a specific livestock(its products) for agricultural households j , in the i^{th} EA in the h^{th} stratum.

y_{hi} is the sample total values of a specific livestock(its products) for EA i in stratum h

\hat{Y}_h is estimated total of specific livestock and its products in stratum h

2. For estimating Ratios in stratum h :

$$\hat{R}_h = \frac{\hat{Z}_h}{\hat{X}_h}$$

Where the numerator and denominator are estimates of domain totals for characteristic z and x , respectively.

3. Sampling Variance of Estimates:

Sampling variance for the estimate of stratum total of livestock and its products, and ratios are estimated by the following formulas.

$$Var(\hat{Y}_h) = (1 - f_h) \frac{n_h}{n_h - 1} \sum_{i=1}^{n_h} \left(\hat{Y}_{hi} - \frac{\hat{Y}_h}{n_h} \right)^2 + f_h \sum_{i=1}^{n_h} (1 - f_{hi}) \left(\frac{h_{hi}}{h_{hi} - 1} \right) \sum_{j=1}^{h_{hi}} \left(\hat{Y}_{hij} - \frac{\hat{Y}_{hi}}{h_{hi}} \right)^2$$

$$Var(\hat{R}_h) = \frac{1}{\hat{X}_h^2} \left[Var(\hat{Z}_h) + \hat{R}_h^2 Var(\hat{X}_h) - 2\hat{R}_h Cov(\hat{Z}_h, \hat{X}_h) \right]$$

Where,

$$Cov(\hat{Z}_h, \hat{X}_h) = (1 - f_h) \frac{n_h}{n_h - 1} \sum_{i=1}^{n_h} \left(\hat{Z}_{hi} - \frac{\hat{Z}_h}{n_h} \right) \left(\hat{X}_{hi} - \frac{\hat{X}_h}{n_h} \right) + f_h \sum_{i=1}^{n_h} (1 - f_{hi}) \left(\frac{h_{hi}}{h_{hi} - 1} \right) \sum_{j=1}^{h_{hi}} \left(\hat{Z}_{hij} - \frac{\hat{Z}_{hi}}{h_{hi}} \right) \left(\hat{X}_{hij} - \frac{\hat{X}_{hi}}{h_{hi}} \right)$$

f_h = average first stage probability of selection of EAs within stratum h .

$f_{hi} = \frac{h_{hi}}{H_{hi}}$ = average second stage probability of selection within the i^{th} sample EA in stratum

h .

$\hat{Y}_{hi}, \hat{Z}_{hi}, \hat{X}_{hi}$ are weighted total livestock and its products, characteristic, z and x , respectively, in the i^{th}

EA and h^{th} stratum.

$\hat{Y}_{hij}, \hat{Z}_{hij}, \hat{X}_{hij}$ are weighted value of livestock and its products, characteristic z and x , respectively, from

j^{th} agricultural household in the i^{th} EA and h^{th} stratum.

Since all strata are independent, the total variance at regional and country level is computed by aggregating the result obtained at Zone/Special Wereda level, i.e.

$$Var(\hat{Y}) = \sum_h^L Var(\hat{Y}_h), Var(\hat{R}) = \sum_{i=1}^L Var(\hat{R}_h)$$

Where, L is the number of strata (Zone/Special Wereda).

In estimating the sampling variance by the above formula, selection of EAs within a stratum is assumed to be with replacement. By so doing the variance estimate may be slightly over estimated but it greatly simplifies the estimation procedure.

4. Coefficient of Variation (CV) of Estimates:

Coefficient of Variation (CV) in percentage of estimate of stratum total of area and production for a specific crop are given by:

$$CV(\hat{Y}_h) = \frac{\sqrt{Var(\hat{Y}_h)}}{\hat{Y}_h} * 100, CV(\hat{R}_h) = \frac{\sqrt{Var(\hat{R}_h)}}{\hat{R}_h} * 100$$

5. Ninety-five percent confidence interval (CI) of stratum total of area:

$$\hat{A}_h \pm 1.96 * SE(\hat{A}_h) \quad ,$$

Where $SE(\hat{A}_h) = \sqrt{Var(\hat{A}_h)}$ is standard error of the estimate of the stratum total of area.

Estimates of standard error and confidence interval for the ratio estimate can also be calculated by adopting the above formulas.

APPENDIX III
Survey Questionnaire

**Annual Agricultural Sample Survey
Livestock and Beehives Population - 2003/04 (1996 E.C.)**

Part I - Identification Particulars

| Region | Zone | Wereda | Farmers' Association | Enumeration Area | Household Number | Holder Number | Holder | | | | | Type of Holding | | |
|--------|------|--------|----------------------|------------------|------------------|---------------|--------|-----|-------------------|--|-------------|---------------------------------|--|--|
| | | | | | | | Name | Age | Sex M=1 F=2 | Edu. Status (Highest Grade Completed) | Family Size | Crop=1 Livestock=2 Both=3 | | |
| | | | | | | | | | | | | | | |

PART II - LIVESTOCK POPULATION AND PRODUCTS

QST I - Did You Have Livestock and/or Beehives on February 9, 2004?

Yes Complete questions below

No - End of the question

Number of Cattle by Age and Purpose on Feb 9, 2004

| | None | Total | Male | Female |
|---|------|-------|------|--------|
| 1. Cattle of all ages _____ | | 1 | 2 | 3 |
| a. Cattle less than 6 months _____ | | 4 | 5 | 6 |
| b. Cattle 6 months and less than 1 year _____ | | 7 | 8 | 9 |
| c. Cattle 1 year and less than 3 years _____ | | 10 | 11 | 12 |
| d. Cattle 3 years and less than 10 years _____ | | 13 | 14 | 15 |
| 1. Beef Cattle _____ | | 16 | 17 | 18 |
| 2. Cattle for breeding _____ | | 19 | 20 | 21 |
| 3. Dairy cows _____ | | 22 | | 23 |
| 4. Cows that gave milk for the last 12 months _____ | | 24 | | 25 |
| 5. Draft cattle _____ | | 26 | 27 | 28 |
| 6. Cattle for other purposes _____ | | 29 | 30 | 31 |
| e. Cattle 10 years and older _____ | | 32 | 33 | 34 |
| f. Grand Total _____ | | 35 | 36 | 37 |
| 1. Local breed _____ | | 38 | 39 | 40 |
| 2. Exotic _____ | | 41 | 42 | 43 |
| 3. Hybrid _____ | | 44 | 45 | 46 |

Form ASS - 96/7 Cont'd

Number of Sheep by Age and Purpose on Feb 9, 2004

| | None | Total | Male | Female |
|--|------|-------|------|--------|
| 2. Sheep of all ages | | 47 | 48 | 49 |
| a. Sheep less than 6 months | | 50 | 51 | 52 |
| b. Sheep 6 months and less than 1 year | | 53 | 54 | 55 |
| c. Sheep 1 year and less than 2 years | | 56 | 57 | 58 |
| d. Sheep 2 years and older | | 59 | 60 | 61 |
| 1. Sheep for mutton | | 62 | 63 | 64 |
| 2. Sheep for wool | | 65 | 66 | 67 |
| 3. Sheep for breeding | | 68 | 69 | 70 |
| 4. Sheep for other purposes | | 71 | 72 | 73 |
| e. Grand Total | | 74 | 75 | 76 |
| 1. Local breed | | 77 | 78 | 79 |
| 2. Exotic | | 80 | 81 | 82 |
| 3. Hybrid | | 83 | 84 | 85 |

Number of Goats by Age and Purpose on Feb 9, 2004

| | None | Total | Male | Female |
|--|------|-------|------|--------|
| 3. Goats of all ages | | 86 | 87 | 88 |
| a. Goats less than 6 months | | 89 | 90 | 91 |
| b. Goats 6 months and less than 1 year | | 92 | 93 | 94 |
| c. Goats 1 year and less than 2 years | | 95 | 96 | 97 |
| d. Goats 2 years and older | | 98 | 99 | 100 |
| 1. Goats for meat | | 101 | 102 | 103 |
| 2. Dairy Goats | | 104 | | 105 |
| 3. Goats for breeding | | 106 | 107 | 108 |
| 4. Goats for other purposes | | 109 | 110 | 111 |
| e. Grand Total | | 112 | 113 | 114 |
| 1. Local breed | | 115 | 116 | 117 |
| 2. Exotic | | 118 | 119 | 120 |
| 3. Hybrid | | 121 | 122 | 123 |

Form ASS - 96/7 Cont'd

Number of Horses, Mules, Asses and Camels by age and Purpose on Feb 9,2004

Horses

- 4. Horses of all ages _____
- a. Horses less than 3 years _____
- b. Horses 3 years and older _____
 - 1. Horses used primary for draft purposes _____
 - 2. Horses for transportation _____
 - 3. Horses for other purposes _____

| None | Total | Male | Female |
|------|-------|------|--------|
| | 124 | 125 | 126 |
| | 127 | 128 | 129 |
| | 130 | 131 | 132 |
| | 133 | 134 | 135 |
| | 136 | 137 | 138 |
| | 139 | 140 | 141 |

Mules

- 5. Mules of all ages _____
- a. Mules less than 3 years _____
- b. Mules 3 years and older _____
 - 1. Mules used primary for draft purposes _____
 - 2. Mules for transportation _____
 - 3. Mules for other purposes _____

| None | Total | Male | Female |
|------|-------|------|--------|
| | 142 | 143 | 144 |
| | 145 | 146 | 147 |
| | 148 | 149 | 150 |
| | 151 | 152 | 153 |
| | 154 | 155 | 156 |
| | 157 | 158 | 159 |

Asses

- 6. Asses of all ages _____
- a. Asses less than 3 years _____
- b. Asses 3 years and older _____
 - 1. Asses used for draft purposes _____
 - 2. Asses for transportation _____
 - 3. Asses for other purposes _____

| None | Total | Male | Female |
|------|-------|------|--------|
| | 160 | 161 | 162 |
| | 163 | 164 | 165 |
| | 166 | 167 | 168 |
| | 169 | 170 | 171 |
| | 172 | 173 | 174 |
| | 175 | 176 | 177 |

Camels

- 7. Camels of all ages _____
- a. Camels less than 4 years _____
- b. Camels 4 years and older _____
 - 1. Camels for slaughter _____
 - 2. Camels for draft purposes _____
 - 3. Camels for milk _____
 - 4. Camels for transportation _____
 - 5. Camels for other purposes _____

| None | Total | Male | Female |
|------|-------|------|--------|
| | 178 | 179 | 180 |
| | 181 | 182 | 183 |
| | 184 | 185 | 186 |
| | 187 | 188 | 189 |
| | 190 | 191 | 192 |
| | 193 | 209 | 194 |
| | 195 | 196 | 197 |
| | 198 | 199 | 200 |

Form ASS - 96/7 Cont'd

Poultry and Beehives

8. Poultry total on Feb 9, 2004

- a. Laying hens _____
- b. Non-Laying hens _____
- c. Cocks _____
- d. Cockerels _____
- e. Pullets _____
- f. Chicks _____

| None | Total | |
|------|-------|--|
| | 201 | |
| | 202 | |
| | 203 | |
| | 204 | |
| | 205 | |
| | 206 | |
| | 207 | |

9. Total Beehives (produced honey during the reference period)

- a. Traditional Beehives _____
- b. Intermediate Beehives _____
- c. Modern Beehives _____

| None | Total | |
|------|-------|--|
| | 208 | |
| | 209 | |
| | 210 | |
| | 211 | |

QST II- Did You Have Livestock During The Reference Period (Feb 9, 2003 to Feb 9, 2004) ?

Yes Complete questions below

No - End of the question

Milk, Egg, and Honey Production during the reference period

10. Dairy cows and Camels

- a. Cows that gave milk during the reference period _____
- b. Average number of months cows actually milked _____
- c. Average lactation period of cows in months _____
- d. Milk production per day per cow in liters _____
- e. Camels that gave milk during th reference period _____
- f. Average number of months camels actually milked _____
- g. Average lactation period of camels in months _____
- h. Milk production per day per camel _____

| None | | |
|------|-----|--|
| | 212 | |
| | 213 | |
| | 214 | |
| | 215 | |
| | 216 | |
| | 217 | |
| | 218 | |
| | 219 | |

11. Egg production per hen per clutch _____

| None | | |
|------|-----|--|
| | 220 | |

12. Average number of clutches _____

| | | |
|--|-----|--|
| | 221 | |
|--|-----|--|

13. Total Number of clutch during the reference period _____

| | | |
|--|-----|--|
| | 222 | |
|--|-----|--|

Form ASS - 96/7 Cont'd

14. Honey production per beehive in kg. during the reference period

- a. Average honey production/ Traditional hive/harvest _____
 Number of harvests/Traditional hive/year _____
- b. Average honey production/ Intermediate hive/harvest _____
 Number of harvests/Intermediate hive/year _____
- c. Average honey production/ Modern hive/harvest _____
 Number of harvests/Modern hive/year _____

None

| | | |
|--|-----|--|
| | 223 | |
| | 224 | |
| | 225 | |
| | 226 | |
| | 227 | |
| | 228 | |

15. Livestock diseases, treatment and Vaccination during the reference period

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---------|-------------------|------------------|-----------------|---------------|----------------------------|--------|
| Sr. No. | Type of Livestock | Total Vaccinated | Total Afflicted | Total Treated | Total Died due to diseases | Remark |
| 1 | Cattle | | | | | |
| 2 | Sheep | | | | | |
| 3 | Goats | | | | | |
| 4 | Draft Animals | | | | | |
| 5 | Camels | | | | | |
| 6 | Poultry | | | | | |
| 7 | Total | | | | | |

16. Livestock Feeds used during the reference period

| 1 | 2 | 3 | 4 | 5 |
|---------|------------------------|------|------------|--------------|
| Sr. No. | Type of Livestock Feed | Code | Used | Percent used |
| | | | yes=1 no=2 | |
| 1 | Green fodder/Grazing | 1 | | |
| 2 | Crop Residue | 2 | | |
| 3 | Improved Feed | 3 | | |
| 4 | Hay | 4 | | |
| 5 | Bi-products | 5 | | |
| 6 | Others | 7 | | |
| Total | | | | 100 |