

THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA
CENTRAL STATISTICAL AGENCY

AGRICULTURAL SAMPLE SURVEY

2020/21 (2013 E.C.)
(September – December, 2020)

VOLUME IV
REPORT ON

LAND UTILIZATION

(PRIVATE PEASANT HOLDINGS, MEHER SEASON)



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STATISTICAL BULLETIN

ABBREVIATIONS:

AgSS Agricultural Sample Survey

CSA Central Statistical Agency

CSPro Census and Surveys Processing system software

CAPI Computer Assisted Personal Interview

CV Coefficient of variation

EA Census Enumeration Areas

E.C. Ethiopian calendar

GPS Global Positioning System

IMPS Integrated Microcomputer Processing System software

PPS Probability Proportional to Size

PSU Primary Sampling Unit

SSU Secondary Sampling Unit

S.N.N.P.R. South Nations, Nationalities and Peoples Region

VPN Virtual Private Network

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PART I: INTRODUCTION AND OBJECTIVES OF THE SURVEY

1.1 Introduction

The relentless exploitation of agriculture and growth of population in Ethiopia have made land an extremely expensive natural resource. This problem is even more pronounced in rural parts of the country within the private peasant holdings where the quest for agricultural land is grave. Land scarcity is in the spotlight and a persistent concern to the government at the height of the march on food security. By virtue of being an indispensable part of life, land is changing invariably in configuration resulting in minuscule holding size per household and becoming a scant supply to farmers in Ethiopia. Information on the mode of land use that prevails within the farming population certainly assists the government to spell out land use policy so as to cope with the pressure on agricultural land.

In view of this, to gauge the shifting make-up of land use and help decision makers articulate the fitting policies, the Central Statistical Agency (C.S.A) has been providing statistical information by collecting, processing and summarizing data on the country's agricultural land use by employing standard procedures of data collection. The 2020/21 (2013 E.C) Agricultural Sample Survey was conducted to furnish data on land utilization within the private peasant holdings for Meher season of the same year.

The survey results are presented in this bulletin and on electronic media for data users. This report comprises three parts. Part I contains the objectives of the annual survey. Part II deals with coverage of the survey, sample design, field organization and method of data collection and Part III includes summary of the results. Estimation procedures and formulation of estimates of totals and variance are presented in Appendix I. Estimates of the standard errors with the corresponding coefficients of variations for land use area are presented in Appendix II.

1.2 Objectives of the Survey

The general objective of CSA's Agricultural Sample Survey (AgSS) is to collect basic quantitative information on the country's agricultural land that is essential for planning, policy formulation, food security, etc. The AgSS is composed of four components: Crop Production Forecast Survey, Meher Season Survey of which land use is a part, Livestock Survey and Belg Season Survey. The specific objectives of Meher Season Survey (Land Utilization) are to estimate the total cultivated area and other forms of land use. Companion reports are also published separately with estimates of crop area, volume of production and quantity of agricultural inputs during Meher Season agriculture. The Land Utilization report is based on private peasant holdings in sedentary rural areas of the country. The data is summarized at regional and zonal levels.

PART II:

SURVEY METHODOLOGY, DATA COLLECTION AND PROCESSING

2.1. Scope and Coverage of the Survey

The range of data items that the 2020/21 (2013 E.C.) Annual Agricultural Sample Survey (Meher Season) dealt with includes all cereals, pulses and oilseeds and the most commonly grown vegetables, root crops, permanent (perennial) crops and other cash crops. Holders growing at least one or more of these and/or other crops are enumerated and data on cropland area and yield condition recorded, hence data on production of these crops acquired.

The 2020/21 (2013 E.C.) Annual Agricultural Sample Survey (Meher season) covered the entire rural parts of the country.

To be covered by the survey, a total of 2,768 Census Enumeration Areas (EAs) were selected. However, due to various reasons that are beyond control, in 397 EAs the survey could not be successful and hence interrupted. Thus, all in all the survey succeeded to cover 2,371 EAs (85.66%) throughout the regions. The Annual Agricultural Sample survey (Meher season) was conducted on the basis of 20 agricultural households selected from each EA. Regarding the ultimate sampling units, it was intended to cover a total of 55,360 agricultural households, however, 47,420 (85.66%) were actually covered by the survey.

2.2. Sampling Frame

The list containing EAs of all regions and their respective households obtained from the 4th round population and housing census cartographic frame was used as the sampling frame in order to select the primary sampling units (EAs). Consequently, all sample EAs were selected from this frame based on the design proposed for the survey. The second stage sampling units, households, were selected from a fresh list of households that were prepared for each EA at the beginning of the survey.

2.3. Sample Design

In order to select the sample, a stratified two-stage cluster sample design was implemented. Census Enumeration Areas (EAs) were taken to be the primary sampling units (PSUs) and the secondary sampling units (SSUs) were agricultural households. The sample size for the 2020/21 (2013 E.C.) agricultural sample survey was determined by taking into account 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 considered.

All administrative zones in each regional state were taken to be the domain of estimation for which major findings of the survey are reported.

2.4. Selection Scheme

Enumeration areas from each stratum were selected systematically using probability proportional to size (PPS) sampling technique; size being number of agricultural households. The sizes for EAs were obtained from the 4th round Ethiopian population and housing census cartographic frame. From the fresh list of households prepared at the beginning of the survey, 20 agricultural households within each sample EA were selected by systematic random sampling technique.

Estimation procedure of totals, ratios, sampling error and the measurement of precision of estimates, standard errors and coefficients of variation (CV) are given in Appendix-I and II respectively. Distribution of sampling units (sampled and covered EAs and households) by stratum is also presented in Appendix-III.

2.5. Organization of Field Work

The conduct of a survey cannot be executed without the arrangement of fieldwork. In recognition of this, the organization of fieldwork has been entrusted to the field operation coordination office that liaises between the Head Office and the 24 Branch Statistical Offices spread across the regions. All Branch Offices took part in the survey execution especially in recruiting the enumerators, organizing the 2nd stage training, assigning the field staff to their sites of enumeration, supervising the data collection, electronic data transfer and retrieving completed questionnaires and submitting them to the Head Office for data processing.

The Branch Offices were also responsible for administering the financial and logistic aspects of the survey within their areas of operation. A total of 2,906 enumerators, 923 field supervisors and 204 statisticians/experts were involved in the data collection where on the average one supervisor was assigned to three enumeration areas for supervision of data collection operation. All the enumerators were supplied with the necessary survey equipment (GPS-equipped tablets, solar battery chargers, kitchen balance scales, etc.) after the

completion of the training to ensure the smooth operation of the survey. To facilitate the data collection activities, a total of 180 four-wheel drive vehicles were used.

2.6. Training of Field Staff

The execution of a survey and quality of data acquired from the survey highly depend on the type of training given to the enumerators and supervisors and the consequent understanding of the tasks to be performed and the standard procedures to be followed by the enumerators and supervisors in the survey undertaking. The quality and completeness of data are ensured when the training meets its objective of producing responsible and fervent enumerators and supervisors.

In light of this point, the training was given to the field staff in two stages. The first stage training, which took place at each of the 24 branch offices for 5 days targeted staff from the Head Office, statisticians/experts and senior field supervisors from Branch Statistical Offices. The staff that took part in the first stage training was then assigned to conduct similar training for the enumerators and other field supervisors for 12 days in all the 24 Branch Statistical Offices distributed across the country.

In the training, the field staff was given detailed classroom instruction on how to collect data, method of area measurement, crop cutting exercise, interviewing procedures, quality checking methods, manipulation of GPS-equipped tablets, usage of data collection applications loaded on tablets, online data transfer, etc. The training also included field practice to reinforce the understanding of concepts, definitions and theories discussed in the classroom with regard to field measurement, crop cutting, GPS-equipped tablets uses and interviewing methods.

2.7. Method of Data Collection

The agricultural data for the year 2020/21 (2013 E.C.) was collected from the entire rural small holding households by interviewing the selected agricultural holders and physically measuring their land plots/parcels and crop cut experiments to obtain data on cropland area, yields and other items of interest.

The data obtained were recorded and transferred in various forms designed for this purpose using Computer Assisted Personal Interview (CAPI) or tablets technology data collection method. Instruments like GPS-equipped tablets, kitchen balance, scientific calculators, GPS gadgets and others were used during data collection for a timely and smooth acquisition of

accurate data. The procedures for measuring area under crop and area of non-crop fields operated by the agricultural holders were performed for the 20 selected households from each sampled E.A or sample cluster

2.8. Data Processing & Tabulation

Census and Survey Processing System (CSPro) software was used by data processing experts to design the tablet-based field data collection applications based on the questionnaires prepared for each survey module by subject matter statisticians. Validity checks such as ranges, skips and consistencies were included in the application to maintain the quality and field level consistency checking of the data. Computer Assisted Personal Interviewing (CAPI) using tablets technology was used to conduct face-to-face interview, cropland area measurement and others data collection . The collected data was then transferred to the supervisors' tablets using Bluetooth. After checking the quality of data collected by enumerator, supervisors transferred the collected data to the server located at the head office using VPN network connection. At the head office, further validity checks were done on each question and consistencies between questions. If error is observed during the validity checks, the data were sent back to the field with error repots for correction. After the corrected data was sent back to the head office, further processing was done on the completed survey data. The final stage of the data processing was to summarize the data and produce statistical tables. Estimation of the statistical tables was done using CSPro and the tabulation component of IMPS (Integrated Microcomputer Processing System) software.

2.9. Concepts and Definitions

Data items of agriculture have to be distinctly defined and identified, so that the information about the items becomes useful. The correct way of stating data items and related terms is a pre-requisite for making standards and definitions for the collection and compilation of agricultural data. The purpose of using standard concepts and definitions is not only to provide quality data but also to ensure that the right items are enumerated and measured accurately to reflect the agricultural situation.

Standard concepts and definitions used in the survey help to maintain consistent enumeration and measurement of variables of interest. To achieve this, CSA communicates concepts and definitions to the field staff through training and instruction manuals. The concepts and definitions used in the survey included the following.

Enumeration Area (E.A): a census enumeration area in the rural parts of the country is a unit of land delineated for the purpose of population census with clear identified boundary, in some case equal to a locality or a part of a locality or a combination of small localities and usually consists of 100 - 150 households.

Household: a household may be either:

- a) a one person household, that is a person who makes provisions for his own 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 provisions for food and other essentials of living. The persons in the group may pool their incomes and have a common budget to a greater or lesser extent. They may be related or unrelated persons or a combination of both. These persons are taken as members of the household.

Agriculture: The growing of crops and/or raising of animals for own consumption and/or sale.

Agricultural Household: a household is considered an agricultural household when at least one member of the household is engaged in growing crops and/or raising livestock in private or in combination with others.

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 legal entity by one person alone, or with others without regard to management, organization, size or location.

Holder: a holder is a person who exercises management control over the operation of the agricultural holding and makes the major decision regarding the utilization of the available resources. He/she has primary technical and economic responsibility for the holding. He/she may operate the holding directly as an owner or a manager. Under conditions of traditional agricultural holding the holder may be regarded as the person, who with or without the help of others, operates land and/or raises livestock in his/her own right, i.e. the person who decides on which, where, when, and how to grow crops or raise livestock or both and has the right to determine the utilization of the products.

Parcel: a parcel of holding is any piece of land entirely surrounded by land and/or water and/or road and/or forest etc., which is not part of the holding. It may consist of one or more cadastral units, plots or fields adjacent to each other.

Field: a field is defined as any plot of land which is a parcel or part of a parcel under the same crop or mixed crops or any other form of land use (private holding).

Crop: includes cereals, pulses, oilseeds, vegetables, root crops, fruits, coffee, Enset, Chat, hops, sugarcane, cotton, tobacco, etc. produced for food, making drinks, stimulation, making fabrics or clothing, etc.

Crop Production: the process of growing and harvesting of the above crops for own consumption and/or sale.

Temporary/Annual Crops: Annual/temporary crops are crops, which are grown in less than a year's time, sometimes only a few months with an objective to sow or replant again for additional production following the current harvest. Continuously grown crops planted in rotation are also considered as temporary crops since each is harvested and destroyed by ploughing in preparation for each successive crop.

Permanent (Perennial) Crops: Crops, which are grown and occupy land for a long period of time, not requiring replanting for several years after each harvest, are considered as permanent crops. All fruit trees (i.e. mangos, avocados, oranges, papayas, mandarin, bananas, etc.) and trees for stimulants/beverages (i.e. coffee, tea, hops (gesho), etc.) are considered permanent crops but meadows and pastures are excluded.

Meher (Main) Season Crop: any temporary crop harvested between the months of Meskerm (September) and Yekatit (February) is considered as meher season crop, in most cases crops those planted during the major rainy season.

Belg Season Crop: any temporary crop harvested between the months of Megabit (March) and Pagume (August) is considered to be Belg Season Crop, in most case crops those planted during the short rainy season.

Fertilizer: – refers to anything that is added to the soil and intended to increase the amount of plant nutrients available for crop growth. In this survey data is elicited on two types of

fertilizers (Natural and Chemical). The Natural fertilizer consists of the farm yard manure and wood ashes while the chemical type consists of DAP (Di- Ammonium phosphate) and UREA (Ammonium Nitrate).

Improved seed:- is crop variety, which gives a significantly higher yield, and better quality compared to locally produced variety of seeds.

Pesticides :- are chemicals that are useful for the control, mitigation or elimination of pests, which are detrimental to crops. Pesticides include insecticides and herbicides.

Irrigation: - refers to the practice where an area of land is purposely and actually provided with water, other than by rain to improve/increase production of crops. The uncontrolled flooding of land by the overflow of rivers or streams is not considered to be irrigation.

Note:-

1. Those cropland area and production designated by “*” in all tables could not be reported because of high coefficient of variation (i.e. less reliable estimates). However, they are consolidated in the total estimates.
2. In all tables “-” indicates not reported or no data.
3. If in some tables, figures do not add up to total, it is due to rounding.
4. Due to incompleteness of the year 2020/21 (2013 E.C) main season field data collection in Tigray region, the 2019/20 (2012 E.C) post-harvest estimates for the respective region are imputed as a proxy estimates for completeness of national estimates.
5. This report does not include dry season irrigation crops (especially the recent initiatives of dry season irrigated wheat), commercial farm crop production and belg (short rainy season) crop production. Separate reports will be produced for those agriculture practice category.
6. In APPENDIX III, “-” for number of covered EAs and households indicate that due to reasons that are beyond control, in all EAs in Tigray region, the survey could not be successful and hence interrupted.
7. A total of 38 EA’s in West Wellega, 34 EA’s in Kellem Wellega, 24 EA’s in Kamashi and 27 EA’s in Shaka zones were selected. However, due to security problems, only 11 EA’s in West Wellega, 7 EA’s in Kellem Wellega, 12 EA’s in Kamashi and 9 EA in Shaka zones were covered. Due to high non-response rate estimates were done with adjustments in these zones and we advise data users to use the estimates cautiously for these areas.

PART III

SUMMARY OF SURVEY RESULTS

3.1 LAND UTILIZATION

Land used for crop lands and non crop lands. Crop land is land used for the cultivation of crops, both temporary and permanent crops. Non crop land is land used for non cultivated such as fallow land, livestock grazing land, wood land, and other land uses (house, fence, ...).

Food security embraces a wide range of crops such as cereals, pulses, oilseeds etc. The fact that most of the land within the private peasant holding is under these food crops comes as no surprise when the struggle for self-sufficiency in food is being intensified.

This is nowhere more illustrated than in the land use survey results for 2020/21 (2013 E.C). The total land area reported for the private peasant holdings was estimated at higher than 22.81 million hectares and operated by more than 19.23 million agricultural households and about 23.19 million agricultural holders. The statistical tables in this report show that most of the agricultural land holdings of small agricultural holders about 71% was under temporary crops.

About 19.52 million, and 14.59 million, agricultural households were reported growing temporary, and permanent crops, respectively, for 2020/21 (2013 E.C) production year. The numbers of households growing both crops (temporary and permanent crops) are not mutually exclusive.

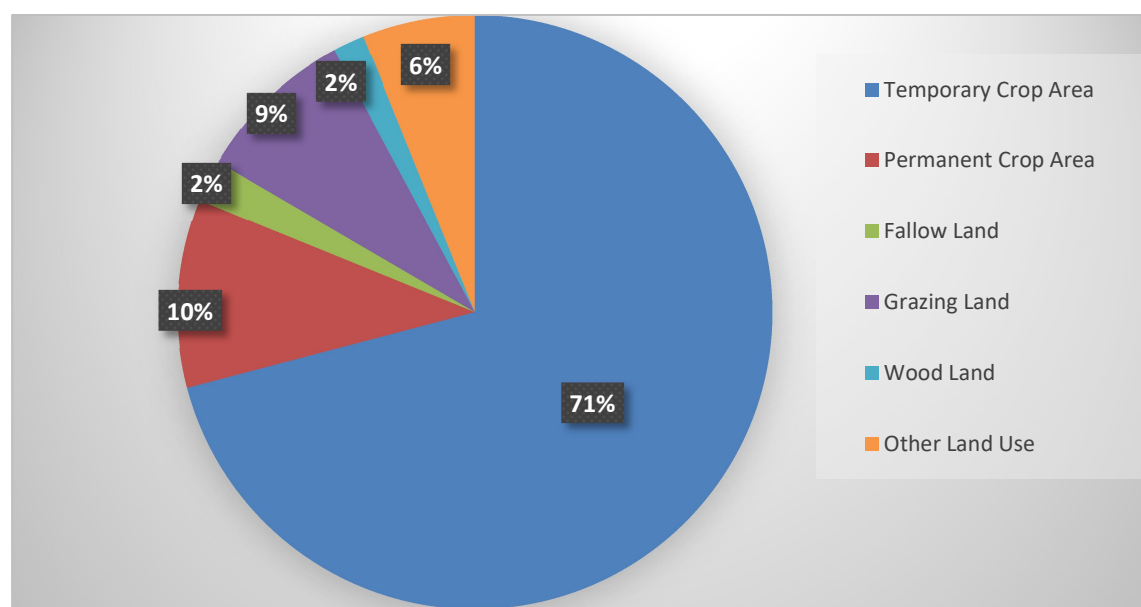


Figure 1: *Percentage distribution of all land holding by type of use, Main Season 2020/21*

The average holding sizes per household and holder were recorded to be .84 and 0.83 hectares, respectively. On the other hand the average cropland area was found out to be 0.73 hectares per household and 0.72 hectare per holder. For details refer to Statistical Table 1. Distributions of households by holding size and holders, by age, sex, holding type and cropland area, by crop type and total land area by tenure system are presented in Statistical Tables 2 up to Table 10 in the report.

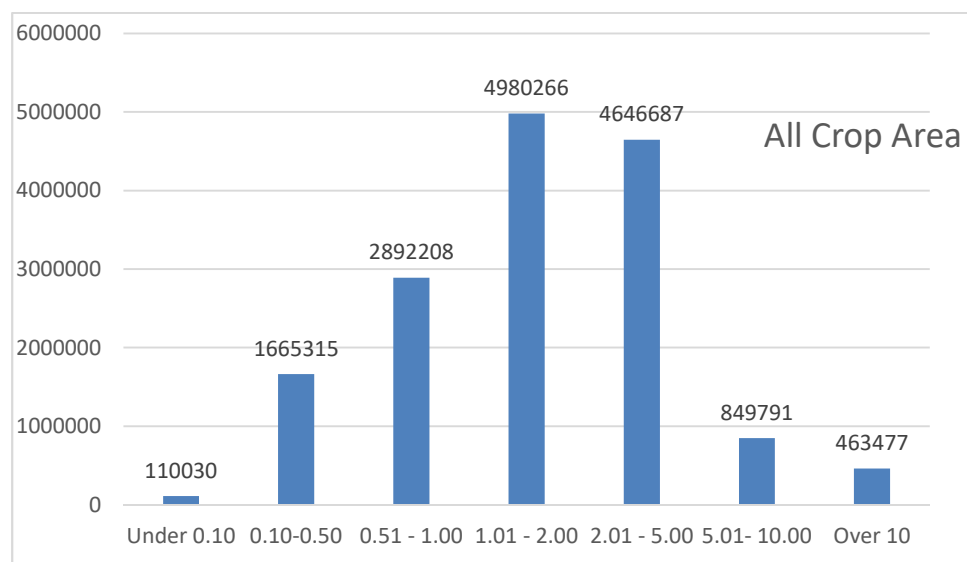


Figure 2: Distribution of all land use area (in ha) by land holding size (ha) , Main Season 2020/21

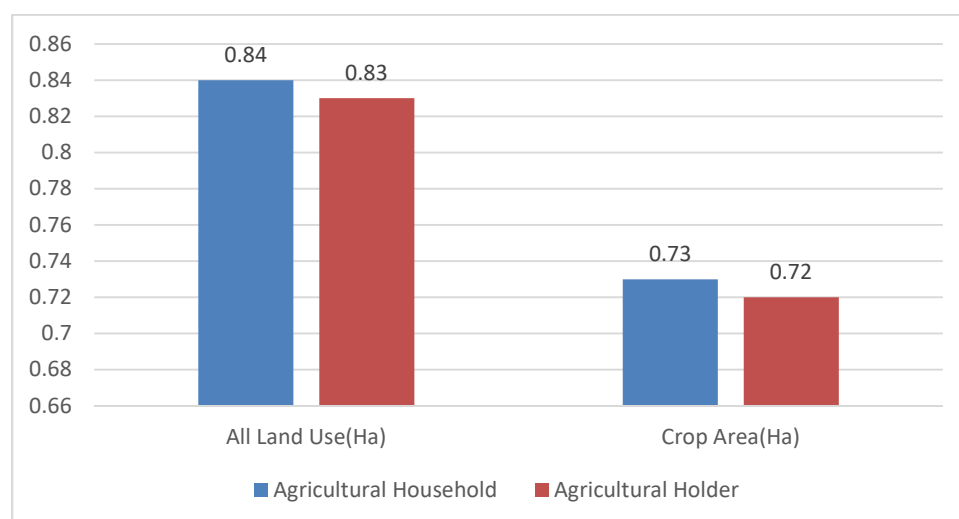


Figure 3: Distribution of Agricultural household & holders land holding size (in ha), Main Season 2020/21

PART IV: STATISTICAL TABLES

Table 1: Land Use Area (in hectare), Number of Households and Holders by Size of Holding, 2020/21 (2013 E.C.) .

Ethiopia

Holding Size								
Items	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	Total
Temporary crop	45,115	1,132,494	2,448,304	4,512,923	4,310,129	801,782	382,109	13,632,856
Number of	-	-	-	-	-	-	-	19,515,133
Average area/household	-	-	-	-	-	-	-	0.70
Number of	1,967,009	6,612,970	4,755,033	4,275,628	2,025,607	166,783	25,286	19,828,317
Average	0.02	0.17	0.51	1.06	2.13	4.81	15.11	0.69
Permanent crop	64,915	532,821	443,904	467,343	336,558	48,009	81,368	1,974,919
Number of	-	-	-	-	-	-	-	14,583,533
Average area/household	-	-	-	-	-	-	-	0.14
Number of	2,311,416	5,550,785	3,114,313	2,536,983	1,082,415	65,903	10,603	14,672,419
Average	0.03	0.10	0.14	0.18	0.31	0.73	7.67	0.13
All crop area	110,030	1,665,315	2,892,208	4,980,266	4,646,687	849,791	463,477	15,607,775
Number of	-	-	-	-	-	-	-	21,286,911
Average area/household	-	-	-	-	-	-	-	0.73
Number of	2,848,913	7,392,062	4,870,287	4,310,647	2,034,367	166,833	25,286	21,648,396
Average	0.04	0.23	0.59	1.16	2.28	5.09	18.33	0.72
Fallow land	1,573	35,062	79,846	135,592	140,619	25,066	16,937	434,696
Graz'ing land	8,451	159,224	269,241	507,833	597,733	120,347	19,058	1,681,886
Wood land	2,648	44,256	69,894	103,854	89,577	12,709	6,545	329,482
Other land use	50,704	171,690	230,683	331,687	285,076	47,397	58,758	1,175,996
All land use	173,406	2,075,548	3,541,872	6,059,232	5,759,692	1,055,311	564,775	19,229,835
Number of households	-	-	-	-	-	-	-	22,812,082
Average holding	-	-	-	-	-	-	-	0.84
Number of	4,244,970	7,490,563	4,902,790	4,321,771	2,040,046	167,046	25,545	23,192,730
Aver. holding/holder	0.04	0.28	0.72	1.40	2.82	6.32	22.11	0.83
Members of	-	-	-	-	-	-	-	121,922,743
Average	-	-	-	-	-	-	-	5.34

Remark: The 2013 EC sample survey did not cover the tigray region but the last year estimate result used as a proxy in order to present this year national estimate.

Table 1.1: Land Use Area (in hectare), Number of Households and Holders by Size of Holding, 2020/21 (2013 E.C.) .

Tigray Region

Items	Holding Size							Total
	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	
Temporary crop area	3,317	112,889	236,129	353,111	225,933	20,470	-	951,850
Number of households	-	-	-	-	-	-	-	1,243,033
Average area/household	-	-	-	-	-	-	-	0.77
Number of holders	110,396	425,059	357,100	270,672	87,566	3,293	-	1,254,086
Average area/holder	0.03	0.27	0.66	1.30	2.58	6.22	-	0.76
Permanent crop area	180	2,599	2,505	2,595	1,274	-	-	9,153
Number of households	-	-	-	-	-	-	-	257,494
Average area/household	-	-	-	-	-	-	-	0.04
Number of holders	15,504	80,730	81,403	62,133	18,013	-	-	257,783
Average area/holder	0.01	0.03	0.03	0.04	0.07	-	-	0.04
All crop area	3,497	115,488	238,634	355,706	227,207	20,470	-	961,002
Number of households	-	-	-	-	-	-	-	1,252,876
Average area/household	-	-	-	-	-	-	-	0.77
Number of holders	116,297	429,299	357,100	270,672	87,566	3,293	-	1,264,227
Average area/holder	0.03	0.27	0.67	1.31	2.59	6.22	-	0.76
Fallow land	17	1,927	5,094	5,706	5,732	7	-	18,485
Grazing land	88	1,178	2,088	3,802	3,667	23	-	10,845
Wood land	23	165	406	394	87	2	-	1,078
Other land use	2,338	10,404	9,932	9,198	4,647	493	-	37,012
All land use	5,963	129,162	256,154	374,807	241,340	20,996	-	1,028,421
Number of households	-	-	-	-	-	-	-	1,318,952
Average holding /HH (ha)	-	-	-	-	-	-	-	0.78
Number of holders	183,647	433,202	357,100	270,672	87,566	3,293	-	1,335,480
Aver. holding/holder (ha)	0.03	0.30	0.72	1.38	2.76	6.38	-	0.77
Members of households	-	-	-	-	-	-	-	6,405,094
Average household size	-	-	-	-	-	-	-	4.86

REMARK: Due to the condition in the Region we didn't cover the 2013 EC sample survey but we used the 2012 EC result as proxy

Table 1.2 Land Use Area (in hectare), Number of Households and Holders by Size of Holding, 2020/21 (2013 E.C.) .

Afar Region

Items	Holding Size							
	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	Total
Temporary crop area	38	600	2,104	2,998	2,354	1,551	-	9,645
Number of households	-	-	-	-	-	-	-	10,596
Average area/household	-	-	-	-	-	-	-	0.91
Number of holders	1,162	2,566	3,196	2,394	972	306	-	10,596
Average area/holder	0.03	0.23	0.66	1.25	2.42	5.07	-	0.91
Permanent crop area	2	7	-	56	-	-	-	65
Number of households	-	-	-	-	-	-	-	222
Average area/household	-	-	-	-	-	-	-	0.29
Number of holders	74	112	-	37	-	-	-	222
Average area/holder	0.03	0.06	-	1.51	-	-	-	0.29
All crop area	40	606	2,104	3,054	2,354	1,551	-	9,709
Number of households	-	-	-	-	-	-	-	10,744
Average area/household	-	-	-	-	-	-	-	0.90
Number of holders	1,235	2,603	3,196	2,431	972	306	-	10,744
Average area/holder	0.03	0.23	0.66	1.26	2.42	5.07	-	0.90
Fallow land	-	58	187	52	33	47	-	378
Grazing land	-	5	22	22	13	52	-	114
Wood land	-	-	-	-	-	-	-	-
Other land use	2,399	897	672	709	254	315	-	5,247
All land use	2,439	1,567	2,985	3,838	2,655	1,965	-	15,449
Number of households	-	-	-	-	-	-	-	92,668
Average holding /HH (ha)	-	-	-	-	-	-	-	0.17
Number of holders	76,692	7,387	4,320	2,964	999	306	-	92,668
Aver. holding/holder (ha)	0.03	0.21	0.69	1.29	2.66	6.42	-	0.17
Members of households	-	-	-	-	-	-	-	577,311
Average household size	-	-	-	-	-	-	-	6.23

Table 1.3 Land Use Area (in hectare), Number of Households and Holders by Size of Holding, 2020/21 (2013 E.C.) .

Amhara Region

Items	Holding Size							Total
	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	
Temporary crop area	9,938	252,169	761,218	1,714,179	1,521,333	300,115	120,514	4,679,468
Number of households	-	-	-	-	-	-	-	4,597,577
Average area/household	-	-	-	-	-	-	-	1.02
Number of holders	309,724	1,049,768	1,232,696	1,402,135	634,681	53,810	6,870	4,689,685
Average area/holder	0.03	0.24	0.62	1.22	2.40	5.58	17.54	1
Permanent crop area	1,445	10,993	16,839	18,717	10,355	1,278	17	59,643
Number of households	-	-	-	-	-	-	-	2,170,581
Average area/household	-	-	-	-	-	-	-	0.03
Number of holders	165,853	432,360	559,671	699,639	302,607	14,864	1,273	2,176,268
Average area/holder	0.01	0.03	0.03	0.03	0.03	0.09	0.01	0.03
All crop area	11,383	263,162	778,058	1,732,896	1,531,688	301,393	120,531	4,739,110
Number of households	-	-	-	-	-	-	-	4,670,476
Average area/household	-	-	-	-	-	-	-	1.01
Number of holders	361,962	1,065,388	1,238,434	1,403,471	635,182	53,810	6,870	4,765,117
Average area/holder	0.03	0.25	0.63	1.23	2.41	5.60	17.54	0.99
Fallow land	243	3,087	9,880	25,677	31,345	9,423	9,197	88,852
Grazing land	770	19,669	57,221	114,614	120,200	18,636	605	331,714
Wood land	694	8,985	24,020	41,930	34,848	2,051	6	112,535
Other land use	5,055	25,185	62,514	83,423	55,646	6,811	4,150	242,784
All land use	18,145	320,089	931,692	1,998,539	1,773,727	338,314	134,489	5,514,995
Number of households	-	-	-	-	-	-	-	4,812,749
Average holding /HH (ha)	-	-	-	-	-	-	-	1.15
Number of holders	482,698	1,077,048	1,251,112	1,406,720	636,473	53,810	6,870	4,914,731
Aver. holding/holder (ha)	0.04	0.30	0.74	1.42	2.79	6.29	19.58	1.12
Members of households	-	-	-	-	-	-	-	21,780,926
Average household size	-	-	-	-	-	-	-	4.53

Table 1.4 Land Use Area (in hectare), Number of Households and Holders by Size of Holding, 2020/21 (2013 E.C.) .

Oromia Region

Items	Holding Size							
	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	Total
Temporary crop area	13,363	397,439	972,084	1,942,318	2,230,239	433,004	192,687	6,181,134
Number of households	-	-	-	-	-	-	-	7,500,348
Average area/household	-	-	-	-	-	-	-	0.82
Number of holders	496,674	2,082,940	1,909,397	1,961,958	1,114,197	99,330	15,190	7,679,685
Average area/holder	0.03	0.19	0.51	0.99	2	4.36	12.69	0.80
Permanent crop area	10,103	166,671	226,465	308,232	256,066	40,933	26,892	1,035,362
Number of households	-	-	-	-	-	-	-	5,112,794
Average area/household	-	-	-	-	-	-	-	0.20
Number of holders	454,378	1,585,664	1,265,330	1,201,017	607,330	44,062	6,893	5,164,674
Average area/holder	0.02	0.11	0.18	0.26	0.42	0.93	3.90	0.20
All crop area	23,466	564,109	1,198,549	2,250,550	2,486,305	473,937	219,579	7,216,496
Number of households	-	-	-	-	-	-	-	7,777,963
Average area/household	-	-	-	-	-	-	-	0.93
Number of holders	598,854	2,220,845	1,952,065	1,977,815	1,120,590	99,330	15,190	7,984,690
Average area/holder	0.04	0.25	0.61	1.14	2.22	4.77	14.46	0.90
Fallow land	358	9,606	34,426	73,093	79,937	10,357	360	208,137
Grazing land	1,337	36,959	100,507	271,819	423,123	100,504	18,453	952,702
Wood land	297	6,718	12,097	29,588	35,806	7,030	6,532	98,068
Other land use	8,030	45,961	84,027	162,456	191,203	37,455	17,618	546,749
All land use	33,486	663,353	1,429,606	2,787,506	3,216,373	629,284	262,542	9,022,151
Number of households	-	-	-	-	-	-	-	7,997,253
Average holding /HH (ha)	-	-	-	-	-	-	-	1.13
Number of holders	768,694	2,248,979	1,966,513	1,984,695	1,124,951	99,543	15,448	8,208,824
Aver. holding/holder (ha)	0.04	0.29	0.73	1.40	2.86	6.32	17	1.10
Members of households	-	-	-	-	-	-	-	44,632,004
Average household size	-	-	-	-	-	-	-	5.58

Table 1.5 Land Use Area (in hectare), Number of Households and Holders by Size of Holding 2020/21 (2013 E.C.) .,

Somale Region

Items	Holding Size							Total
	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	
Temporary crop area	595	15,495	20,101	35,148	28,557	7,100	1,019	108,017
Number of households	-	-	-	-	-	-	-	147,919
Average area/household	-	-	-	-	-	-	-	0.73
Number of holders	17,954	62,402	28,918	26,755	11,089	729	72	147,919
Average area/holder	0.03	0.25	0.70	1.31	2.58	9.74	14.15	0.73
Permanent crop area	8	373	761	537	415	-	-	2,094
Number of households	-	-	-	-	-	-	-	6,439
Average area/household	-	-	-	-	-	-	-	0.33
Number of holders	394	1,862	1,940	1,099	1,144	-	-	6,439
Average area/holder	0.02	0.20	0.39	0.49	0.36	-	-	0.33
All crop area	604	15,868	20,862	35,685	28,973	7,100	1,019	110,111
Number of households	-	-	-	-	-	-	-	150,259
Average area/household	-	-	-	-	-	-	-	0.73
Number of holders	18,195	63,907	29,513	26,755	11,089	729	72	150,259
Average area/holder	0.03	0.25	0.71	1.33	2.61	9.74	14.15	0.73
Fallow land	203	531	184	-	-	-	-	918
Grazing land	311	3,375	1,125	358	19	-	-	5,187
Wood land	39	18	-	-	-	-	-	57
Other land use	19,285	5,583	1,795	1,769	1,004	29	5	29,471
All land use	20,442	25,375	23,966	37,812	29,996	7,129	1,024	145,745
Number of households	-	-	-	-	-	-	-	1,090,264
Average holding /HH (ha)	-	-	-	-	-	-	-	0.13
Number of holders	913,481	106,328	31,958	26,755	11,089	729	72	1,090,411
Aver. holding/holder (ha)	0.02	0.24	0.75	1.41	2.71	9.78	14.22	0.13
Members of households	-	-	-	-	-	-	-	8,146,282
Average household size	-	-	-	-	-	-	-	7.47

Table 1.6 Land Use Area (in hectare), Number of Households and Holders by Size of Holding, 2020/21 (2013 E.C.) .

Benishangul – Gumuz

Items	Holding Size							Total
	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	
Temporary crop area	865	15,032	25,095	64,444	98,617	23,394	32,916	260,363
Number of households	-	-	-	-	-	-	-	217,117
Average area/household	-	-	-	-	-	-	-	1.20
Number of holders	27,576	59,705	39,864	48,020	37,602	4,200	2,736	219,704
Average area/holder	0.03	0.25	0.63	1.34	2.62	5.57	12.03	1.19
Permanent crop area	97	785	790	1,193	844	73	243	4,026
Number of households	-	-	-	-	-	-	-	132,896
Average area/household	-	-	-	-	-	-	-	0.03
Number of holders	17,377	29,453	24,990	32,071	24,783	2,470	2,020	133,164
Average area/holder	0.01	0.03	0.03	0.04	0.03	0.03	0.12	0.03
All crop area	963	15,817	25,884	65,636	99,461	23,468	33,160	264,389
Number of households	-	-	-	-	-	-	-	218,990
Average area/household	-	-	-	-	-	-	-	1.21
Number of holders	29,362	59,825	39,890	48,020	37,602	4,200	2,736	221,635
Average area/holder	0.03	0.26	0.65	1.37	2.65	5.59	12.12	1.19
Fallow land	28	527	1,203	2,447	6,748	2,524	7,380	20,859
Grazing land	-	63	37	35	480	10	-	626
Wood land	2	68	22	61	102	35	7	296
Other land use	236	817	1,060	1,142	1,318	99	251	4,925
All land use	1,229	17,292	28,207	69,322	108,110	26,136	40,798	291,094
Number of households	-	-	-	-	-	-	-	220,156
Average holding /HH (ha)	-	-	-	-	-	-	-	1.32
Number of holders	30,613	59,825	39,890	48,123	37,602	4,200	2,736	222,989
Aver. holding/holder (ha)	0.04	0.29	0.71	1.44	2.88	6.22	14.91	1.31
Members of households	-	-	-	-	-	-	-	1,135,677
Average household size	-	-	-	-	-	-	-	5.16

Table 1.7 Land Use Area (in hectare), Number of Households and Holders by Size of Holding, 2020/21 (2013 E.C.) .

S.N.N.P. Region

Items	Holding Size							
	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	Total
Temporary crop area	12,971	276,915	397,063	381,668	200,268	15,517	34,936	1,319,340
Number of households	-	-	-	-	-	-	-	4,534,453
Average area/household	-	-	-	-	-	-	-	0.29
Number of holders	747,611	2,121,303	1,028,422	522,966	136,726	4,715	416	4,562,160
Average area/holder	0.02	0.13	0.39	0.73	1.46	3.29	83.98	0.29
Permanent crop area	24,316	175,122	124,288	107,546	62,245	3,315	54,215	551,048
Number of households	-	-	-	-	-	-	-	4,716,461
Average area/household	-	-	-	-	-	-	-	0.12
Number of holders	960,763	2,165,444	984,874	492,536	125,790	4,078	416	4,733,900
Average area/holder	0.03	0.08	0.13	0.22	0.49	0.81	130.32	0.12
All crop area	37,287	452,037	521,351	489,214	262,513	18,833	89,152	1,870,388
Number of households	-	-	-	-	-	-	-	4,972,123
Average area/household	-	-	-	-	-	-	-	0.38
Number of holders	1,012,844	2,270,454	1,047,716	530,335	138,048	4,715	416	5,004,529
Average area/holder	0.04	0.20	0.50	0.92	1.90	3.99	214.31	0.37
Fallow land	702	16,766	27,412	27,835	16,760	2,707	-	92,182
Grazing land	2,892	65,447	89,986	102,389	49,831	1,114	-	311,658
Wood land	924	19,551	31,064	31,052	18,592	3,591	-	104,775
Other land use	8,714	61,683	63,824	70,960	30,653	2,180	36,733	274,747
All land use	50,519	615,484	733,637	721,450	378,349	28,425	125,885	2,653,750
Number of households	-	-	-	-	-	-	-	5,032,823
Average holding /HH (ha)	-	-	-	-	-	-	-	0.53
Number of holders	1,066,494	2,276,945	1,049,357	530,693	138,048	4,715	416	5,066,669
Aver. holding/holder (ha)	0.05	0.27	0.70	1.36	2.74	6.03	302.61	0.52
Members of households	-	-	-	-	-	-	-	27,513,811
Average household size	-	-	-	-	-	-	-	5.47

Table 1.8 Land Use Area (in hectare), Number of Households and Holders by Size of Holding, 2020/21 (2013 E.C.) .

Sidama Region

Items	Holding Size							Total
	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	
Temporary crop area	3,624	52,237	23,857	10,531	-	-	-	90,249
Number of households	-	-	-	-	-	-	-	1,151,526
Average area/household	-	-	-	-	-	-	-	0.08
Number of holders	241,514	749,990	130,356	29,666	-	-	-	1,151,526
Average area/holder	0.02	0.07	0.18	0.35	-	-	-	0.08
Permanent crop area	28,389	171,277	66,214	22,932	-	-	-	288,812
Number of households	-	-	-	-	-	-	-	2,094,750
Average area/household	-	-	-	-	-	-	-	0.14
Number of holders	683,122	1,209,710	176,079	39,085	-	-	-	2,107,997
Average area/holder	0.04	0.14	0.38	0.59	-	-	-	0.14
All crop area	32,013	223,514	90,071	33,463	-	-	-	379,061
Number of households	-	-	-	-	-	-	-	2,110,907
Average area/household	-	-	-	-	-	-	-	0.18
Number of holders	692,176	1,216,814	176,079	39,085	-	-	-	2,124,154
Average area/holder	0.05	0.18	0.51	0.86	-	-	-	0.18
Fallow land	13	2,277	1,184	367	-	-	-	3,840
Grazing land	3,051	32,285	17,780	14,241	-	-	-	67,358
Wood land	668	8,708	2,252	658	-	-	-	12,287
Other land use	4,182	19,454	5,574	942	-	-	-	30,153
All land use	39,927	286,239	116,861	49,672	-	-	-	492,699
Number of households	-	-	-	-	-	-	-	2,110,907
Average holding /HH (ha)	-	-	-	-	-	-	-	0.23
Number of holders	692,176	1,216,814	176,079	39,085	-	-	-	2,124,154
Aver. holding/holder (ha)	0.06	0.24	0.66	1.27	-	-	-	0.23
Members of households	-	-	-	-	-	-	-	10,967,400
Average household size	-	-	-	-	-	-	-	5.20

Table 1.9 Land Use Area (in hectare), Number of Households and Holders by Size of Holding, 2020/21 (2013 E.C.) .

Gambela Region

Items	Holding Size							Total
	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	
Temporary crop area	170	3,110	1,936	1,587	1,611	630	36	9,079
Number of households	-	-	-	-	-	-	-	34,728
Average area/household	-	-	-	-	-	-	-	0.26
Number of holders	5,225	18,075	5,883	3,484	2,053	397	3	35,120
Average area/holder	0.03	0.17	0.33	0.46	0.78	1.59	12	0.26
Permanent crop area	126	1,097	2,143	3,592	5,139	2,410	-	14,508
Number of households	-	-	-	-	-	-	-	25,806
Average area/household	-	-	-	-	-	-	-	0.56
Number of holders	4,836	10,009	4,620	3,657	2,330	429	-	25,882
Average area/holder	0.03	0.11	0.46	0.98	2.21	5.62	-	0.56
All crop area	296	4,207	4,079	5,179	6,750	3,039	36	23,586
Number of households	-	-	-	-	-	-	-	40,759
Average area/household	-	-	-	-	-	-	-	0.58
Number of holders	6,941	19,988	6,851	4,400	2,597	448	3	41,228
Average area/holder	0.04	0.21	0.60	1.18	2.60	6.78	12	0.57
Fallow land	8	244	147	196	63	-	-	657
Grazing land	-	52	82	167	101	8	-	410
Wood land	-	32	1	27	8	-	-	67
Other land use	102	924	647	510	309	15	*	2,507
All land use	406	5,458	4,956	6,079	7,230	3,062	36	27,228
Number of households	-	-	-	-	-	-	-	43,302
Average holding /HH (ha)	-	-	-	-	-	-	-	0.63
Number of holders	8,328	21,067	6,953	4,400	2,597	448	3	43,796
Aver. holding/holder (ha)	0.05	0.26	0.71	1.38	2.78	6.83	12	0.62
Members of households	-	-	-	-	-	-	-	236,351
Average household size	-	-	-	-	-	-	-	5.46

Table 1.10 Land Use Area (in hectare), Number of Households and Holders by Size of Holding, 2020/21 (2013 E.C.) .

Harari Region

Items	Holding Size							Total
	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	
Temporary crop area	125	2,978	4,069	4,066	392	-	-	11,630
Number of households	-	-	-	-	-	-	-	45,825
Average area/household	-	-	-	-	-	-	-	0.25
Number of holders	6,078	23,958	10,893	4,553	343	-	-	45,825
Average area/holder	0.02	0.12	0.37	0.89	1.14	-	-	0.25
Permanent crop area	179	3,196	3,386	1,724	208	-	-	8,694
Number of households	-	-	-	-	-	-	-	46,948
Average area/household	-	-	-	-	-	-	-	0.19
Number of holders	6,485	24,680	10,891	4,549	343	-	-	46,948
Average area/holder	0.03	0.13	0.31	0.38	0.61	-	-	0.19
All crop area	303	6,174	7,455	5,790	601	-	-	20,323
Number of households	-	-	-	-	-	-	-	48,800
Average area/household	-	-	-	-	-	-	-	0.42
Number of holders	7,265	25,495	11,060	4,637	343	-	-	48,800
Average area/holder	0.04	0.24	0.67	1.25	1.75	-	-	0.42
Fallow land	1	10	84	99	-	-	-	193
Grazing land	1	31	10	33	48	-	-	123
Wood land	1	5	12	89	135	-	-	242
Other land use	93	481	289	286	14	-	-	1,163
All land use	399	6,700	7,851	6,298	798	-	-	22,045
Number of households	-	-	-	-	-	-	-	49,514
Average holding /HH (ha)	-	-	-	-	-	-	-	0.45
Number of holders	7,979	25,495	11,060	4,637	343	-	-	49,514
Aver. holding/holder (ha)	0.05	0.26	0.71	1.36	2.33	-	-	0.45
Members of households	-	-	-	-	-	-	-	274,933
Average household size	-	-	-	-	-	-	-	5.55

Table 1.11 Land Use Area (in hectare), Number of Households and Holders by Size of Holding, 2020/21 (2013 E.C.) .

Dire Dawa

Items	Holding Size							Total
	Under 0.10	0.10 – 0.50	0.51 – 1.0	1.01 – 2.0	2.01 – 5	5.01- 10	Over 10	
Temporary crop area	108	3,630	4,648	2,873	824	-	-	12,083
Number of households	-	-	-	-	-	-	-	32,011
Average area/household	-	-	-	-	-	-	-	0.38
Number of holders	3,095	17,203	8,309	3,026	378	-	-	32,011
Average area/holder	0.03	0.21	0.56	0.95	2.18	-	-	0.38
Permanent crop area	70	701	513	220	10	-	-	1,515
Number of households	-	-	-	-	-	-	-	19,143
Average area/household	-	-	-	-	-	-	-	0.08
Number of holders	2,629	10,762	4,516	1,162	74	-	-	19,143
Average area/holder	0.03	0.07	0.11	0.19	0.14	-	-	0.08
All crop area	179	4,331	5,160	3,093	835	-	-	13,598
Number of households	-	-	-	-	-	-	-	33,014
Average area/household	-	-	-	-	-	-	-	0.41
Number of holders	3,783	17,444	8,383	3,026	378	-	-	33,014
Average area/holder	0.05	0.25	0.62	1.02	2.21	-	-	0.41
Fallow land	-	28	46	120	-	-	-	194
Grazing land	1	160	384	353	253	-	-	1,151
Wood land	-	6	18	53	-	-	-	77
Other land use	271	302	349	291	28	-	-	1,239
All land use	451	4,828	5,956	3,910	1,115	-	-	16,259
Number of households	-	-	-	-	-	-	-	43,494
Average holding /HH (ha)	-	-	-	-	-	-	-	0.37
Number of holders	14,168	17,473	8,448	3,026	378	-	-	43,494
Aver. holding/holder (ha)	0.03	0.28	0.71	1.29	2.95	-	-	0.37
Members of households	-	-	-	-	-	-	-	252,954
Average household size	-	-	-	-	-	-	-	5.82

Table 2 Distribution of Agricultural Households by Holding size and Household size, 2020/21 (2013 E.C.) .

Ethiopia

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 – 5 Members	6 – 9 Members	10 and more Members	All Households
All	122,059,737	22,812,082	541,268	4,643,868	7,655,457	8,801,365
Under 0.10	21,222,984	4,150,463	238,370	1,022,588	1,282,376	1,297,474
0.10 – 0.50	37,025,394	7,270,622	184,646	1,709,999	2,515,713	2,578,832
0.51 – 1	25,672,055	4,819,740	76,962	969,245	1,711,090	1,851,482
1.01 – 2	24,034,368	4,302,657	33,165	712,374	1,488,959	1,878,688
2.01 – 5	12,770,342	2,068,220	7,411	212,210	608,544	1,087,625
5.01 – 10	1,147,869	174,288	301	15,496	42,849	93,180
Over 10	186,726	26,091	413	1,956	5,925	14,086

Table 2.1 Distribution of Agricultural Households by Holding size and Household size, 2020/21 (2013 E.C.) .

Tigray Region

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 – 5 Members	6 – 9 Members	10 and more Members	All Households
All	6,417,817	1,318,952	70,541	304,891	437,809	487,183
Under 0.10	642,251	178,066	28,067	68,573	53,194	27,330
0.10 – 0.50	1,883,205	423,663	30,205	117,825	146,729	125,337
0.51 – 1	1,794,673	353,214	7,214	73,377	131,578	137,005
1.01 – 2	1,537,411	271,846	4,684	36,680	78,771	144,750
2.01 – 5	541,513	88,870	370	7,803	26,782	50,857
5.01 – 10	18,764	3,293	-	634	756	1,904
Over 10	-	-	-	-	-	-

REMARK: Due to the condition in the Region we didn't cover the 2013 EC sample survey but we used the 2012 EC result as proxy

Table 2.2 Distribution of Agricultural Households by Holding size and Household size, 2020/21 (2013 E.C.) .

Afar Region

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 – 5 Members	6 – 9 Members	10 and more Members	All Households
All	577,311	92,668	1,217	11,304	25,024	45,487
Under 0.10	475,190	76,692	993	9,841	20,325	37,752
0.10 – 0.50	50,469	7,387	125	521	1,613	4,108
0.51 – 1	25,263	4,320	47	555	1,471	2,027
1.01 – 2	17,215	2,964	53	317	1,290	920
2.01 – 5	6,996	999	-	70	256	479
5.01 – 10	2,179	306	-	-	71	201
Over 10	-	-	-	-	-	-

Table 2.3 Distribution of Agricultural Households by Holding size and Household size, 2020/21 (2013 E.C.) .

Amhara Region

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 - 5 Members	6 - 9 Members	10 and more Members	All Households
All	21,811,475	4,812,749	203,285	1,373,370	1,804,216	1,383,376
Under 0.10	1,349,346	461,600	102,054	213,367	110,553	34,278
0.10 – 0.50	3,947,718	1,018,410	60,919	403,675	377,708	171,794
0.51 – 1	5,445,232	1,222,698	30,013	369,352	511,105	301,933
1.01 – 2	6,994,320	1,400,210	8,242	300,927	561,715	518,626
2.01 – 5	3,703,220	648,506	1,883	78,921	224,366	325,804
5.01 – 10	319,254	54,027	175	7,128	17,039	26,641
Over 10	52,386	7,299	-	-	1,731	4,300

Table 2.4 Distribution of Agricultural Households by Holding size and Household size, 2020/21 (2013 E.C.) .

Oromia Region

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 - 5 Members	6 - 9 Members	10 and more Members	All Households
All	44,729,629	7,997,253	151,299	1,489,787	2,542,740	3,283,722
Under 0.10	3,386,744	728,606	47,759	224,224	226,371	191,370
0.10 – 0.50	11,112,627	2,119,285	50,487	492,666	700,448	757,287
0.51 – 1	10,729,478	1,920,950	30,331	351,698	634,041	781,429
1.01 – 2	11,397,850	1,967,727	17,241	303,522	651,701	873,344
2.01 – 5	7,253,480	1,138,802	4,943	108,243	306,003	613,390
5.01 – 10	733,530	106,229	125	7,566	21,865	57,824
Over 10	115,921	15,653	413	1,869	2,312	9,078

Table 2.5 Distribution of Agricultural Households by Holding size and Household size, 2020/21 (2013 E.C.) .

Somalie Region

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 - 5 Members	6 - 9 Members	10 and more Members	All Households
All	8,146,135	1,090,264	3,610	70,194	211,850	538,419
Under 0.10	6,782,400	913,334	3,574	58,520	184,637	442,574
0.10 – 0.50	846,814	106,328	36	4,805	13,538	60,253
0.51 – 1	230,883	31,958	-	4,408	6,305	13,874
1.01 – 2	199,688	26,755	-	2,075	5,367	14,460
2.01 – 5	80,692	11,089	-	386	1,948	6,583
5.01 – 10	4,941	729	-	-	55	674
Over 10	717	72	-	-	-	-

**Table 2.6 Distribution of Agricultural Households by Holding size and Household size, 2020/21 (2013 E.C.) .
Benishangul – Gumuz Region**

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 - 5 Members	6 - 9 Members	10 and more Members	All Households
All	1,136,737	220,156	9,277	49,109	72,061	79,493
Under 0.10	114,197	30,136	5,259	9,446	9,816	5,158
0.10 – 0.50	286,523	59,151	1,793	16,724	19,773	19,323
0.51 – 1	206,377	38,827	1,253	7,590	11,725	16,392
1.01 – 2	252,490	47,405	913	10,271	15,677	18,207
2.01 – 5	226,747	37,448	59	4,825	11,814	17,659
5.01 – 10	35,004	4,540	-	166	1,584	2,254
Over 10	15,399	2,649	-	87	1,672	499

**Table 2.7 Distribution of Agricultural Households by Holding size and Household size, 2020/21 (2013 E.C.) .
S.N.N.P. Region**

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 - 5 Members	6 - 9 Members	10 and more Members	All Households
All	27,508,521	5,032,823	83,810	904,138	1,705,012	2,113,149
Under 0.10	5,080,893	1,052,821	42,765	261,902	375,541	348,543
0.10 – 0.50	12,050,287	2,255,869	31,563	443,267	786,781	908,303
0.51 – 1	6,059,193	1,045,227	7,510	137,896	351,443	492,575
1.01 – 2	3,345,573	534,587	1,926	49,727	153,532	288,412
2.01 – 5	938,663	139,188	46	11,346	36,273	71,625
5.01 – 10	31,624	4,715	-	-	1,234	3,482
Over 10	2,289	416	-	-	208	208

**Table 2.8 Distribution of Agricultural Households by Holding size and Household size, 2020/21 (2013 E.C.) .
Sidama**

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 - 5 Members	6 - 9 Members	10 and more Members	All Households
All	10,967,400	2,110,907	14,705	417,430	812,017	815,326
Under 0.10	3,240,771	678,929	6,809	169,040	290,904	201,566
0.10 – 0.50	6,490,816	1,216,814	7,896	220,303	447,460	506,529
0.51 – 1	1,022,501	176,079	-	20,851	55,745	93,289
1.01 – 2	213,312	39,085	-	7,236	17,908	13,942
2.01 – 5	-	-	-	-	-	-
5.01 – 10	-	-	-	-	-	-
Over 10	-	-	-	-	-	-

**Table 2.9 Distribution of Agricultural Households by Holding size and Household size, 2020/21 (2013 E.C.) .
Gambela Region**

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 - 5 Members	6 - 9 Members	10 and more Members	All Households
All	236,825	43,302	1,332	9,389	14,251	14,632
Under 0.10	37,329	8,131	331	2,873	2,809	1,627
0.10 – 0.50	121,086	20,746	601	3,481	6,733	7,856
0.51 – 1	38,415	6,962	184	1,462	2,163	2,658
1.01 – 2	24,229	4,415	106	953	1,442	1,364
2.01 – 5	13,179	2,597	110	617	855	928
5.01 – 10	2,573	448	-	3	245	199
Over 10	15	3	-	-	3	-

**Table 2.10 Distribution of Agricultural Households by Holding size and Household size 2020/21 (2013 E.C.)
Harari Region**

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 - 5 Members	6 – 9 Members	10 and more Members	All Households
All	274,933	49,514	1,592	6,886	18,317	19,982
Under 0.10	37,239	7,979	530	2,042	3,133	2,088
0.10 – 0.50	136,978	25,495	723	3,539	10,509	9,358
0.51 – 1	68,572	11,060	340	858	3,233	5,861
1.01 – 2	30,410	4,637	-	449	1,195	2,578
2.01 – 5	1,734	343	-	-	247	96
5.01 – 10	-	-	-	-	-	-
Over 10	-	-	-	-	-	-

**Table 2.11 Distribution of Agricultural Households by Holding size and Household size, 2020/21 (2013 E.C.) .
Dire Dawa**

Holding size (HA)	Household size					
	One Member	2 - 3 Members	4 - 5 Members	6 – 9 Members	10 and more Members	All Households
All	252,954	43,494	599	7,370	12,159	20,597
Under 0.10	76,625	14,168	230	2,761	5,094	5,188
0.10 – 0.50	98,872	17,473	299	3,194	4,422	8,684
0.51 – 1	51,468	8,448	70	1,197	2,281	4,438
1.01 – 2	21,872	3,026	-	218	363	2,083
2.01 – 5	4,118	378	-	-	-	203
5.01 – 10	-	-	-	-	-	-
Over 10	-	-	-	-	-	-

Table 3: Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.)
Ethiopia

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 18	14,870	2,845	17,715	58,407	26,229	84,636	26,064	4,486	30,551	99,342	33,560	132,901
18 – 20	76,126	11,113	87,239	60,595	25,921	86,516	126,645	12,603	139,247	263,366	49,636	313,002
21 – 24	156,474	14,564	171,038	46,775	30,002	76,777	437,816	26,015	463,831	641,065	70,581	711,647
25 – 29	383,411	53,457	436,868	107,915	83,036	190,951	1,742,968	137,502	1,880,470	2,234,295	273,995	2,508,289
30 – 39	611,331	119,386	730,717	250,164	170,872	421,036	4,673,284	607,088	5,280,372	5,534,779	897,347	6,432,125
40 – 49	305,475	135,509	440,984	227,552	136,141	363,693	3,963,251	724,335	4,687,586	4,496,278	995,985	5,492,264
50 – 59	161,108	149,276	310,384	120,559	99,063	219,621	2,430,843	642,885	3,073,728	2,712,510	891,223	3,603,733
>=60	289,298	289,337	578,636	139,752	121,560	261,312	2,967,419	766,580	3,733,999	3,396,469	1,177,477	4,573,946
All	1,998,093	775,487	2,773,580	1,011,721	692,822	1,704,543	16,368,290	2,921,495	19,289,784	19,378,103	4,389,804	23,767,907

Table 3.1 Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.) .
Tigray Region

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 18	539	-	539	397	-	397	-	394	394	936	394	1,330
18 – 20	857	1,465	2,322	1,655	721	2,376	1,066	598	1,663	3,577	2,784	6,361
21 – 24	4,858	1,432	6,290	3,544	4,222	7,766	12,001	2,101	14,102	20,403	7,755	28,158
25 – 29	15,678	4,856	20,534	4,722	3,866	8,589	69,487	7,787	77,273	89,887	16,509	106,396
30 – 39	27,624	8,485	36,109	13,170	11,585	24,754	183,867	43,894	227,762	224,661	63,964	288,625
40 – 49	12,748	11,805	24,554	4,302	7,853	12,156	233,202	49,858	283,060	250,252	69,517	319,769
50 – 59	8,467	9,767	18,235	1,668	4,416	6,084	162,998	47,058	210,056	173,133	61,241	234,374
>=60	21,431	31,153	52,585	5,486	7,705	13,191	228,289	63,978	292,267	255,206	102,836	358,043
All	92,203	68,964	161,167	34,944	40,368	75,312	890,909	215,669	1,106,577	1,018,055	325,001	1,343,056

Table 3.2 Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.) .
Afar Region

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 18	-	-	-	101	273	374	-	-	-	101	273	374
18 – 20	42	86	129	780	1,082	1,862	50	9	58	872	1,177	2,049
21 – 24	-	-	-	2,701	1,205	3,905	499	103	602	3,200	1,308	4,508
25 – 29	-	-	-	7,985	3,632	11,617	890	248	1,138	8,875	3,881	12,755
30 – 39	156	-	156	18,931	6,593	25,525	2,859	616	3,475	21,946	7,209	29,155
40 – 49	43	-	43	14,978	4,464	19,442	1,857	365	2,222	16,877	4,829	21,707
50 – 59	140	-	140	7,648	2,125	9,773	1,129	235	1,364	8,917	2,360	11,277
>=60	235	43	277	6,739	3,065	9,804	1,583	42	1,625	8,556	3,150	11,707
All	616	129	744	59,863	22,440	82,303	8,866	1,619	10,485	69,345	24,187	93,532

**Table 3.3 Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.) .
Amhara Region**

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 18	1,940	790	2,730	23,293	9,285	32,578	3,333	400	3,733	28,567	10,474	39,041
18 – 20	17,033	2,281	19,314	20,112	3,455	23,567	21,517	1,473	22,990	58,662	7,208	65,870
21 – 24	29,675	6,576	36,251	10,357	5,747	16,104	89,908	4,426	94,334	129,940	16,749	146,690
25 – 29	62,776	13,414	76,190	15,771	10,886	26,656	318,925	21,952	340,877	397,472	46,251	443,723
30 – 39	102,075	27,128	129,203	16,359	13,226	29,585	941,294	100,388	1,041,681	1,059,728	140,742	1,200,469
40 – 49	53,688	27,645	81,333	5,403	7,531	12,934	881,165	117,634	998,799	940,256	152,810	1,093,066
50 – 59	32,227	40,723	72,950	4,611	17,565	22,175	632,980	146,353	779,334	669,818	204,641	874,459
>=60	72,001	92,494	164,495	13,505	28,867	42,372	794,113	179,265	973,378	879,619	300,626	1,180,245
All	371,416	211,051	582,467	109,409	96,562	205,971	3,683,237	571,890	4,255,127	4,164,062	879,502	5,043,564

**Table 3.4 Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.) .
Oromia Region**

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 18	8,970	529	9,499	17,361	11,089	28,450	15,987	214	16,201	42,317	11,832	54,150
18 – 20	42,707	5,623	48,331	21,579	3,188	24,766	70,425	7,290	77,715	134,711	16,101	150,812
21 – 24	76,411	4,325	80,736	12,278	1,704	13,982	232,205	9,941	242,146	320,894	15,970	336,864
25 – 29	141,434	5,477	146,912	23,845	7,047	30,891	739,934	45,723	785,657	905,213	58,246	963,460
30 – 39	221,289	37,352	258,641	37,646	14,832	52,478	1,879,791	197,827	2,077,618	2,138,727	250,010	2,388,737
40 – 49	105,718	31,016	136,734	21,432	13,830	35,262	1,476,174	223,775	1,699,949	1,603,324	268,621	1,871,945
50 – 59	57,671	61,759	119,429	15,993	11,711	27,704	834,116	194,782	1,028,899	907,780	268,252	1,176,032
>=60	91,464	73,945	165,409	28,301	19,729	48,030	990,477	264,670	1,255,147	1,110,242	358,344	1,468,586
All	745,665	220,026	965,691	178,435	83,130	261,564	6,239,109	944,221	7,183,330	7,163,209	1,247,377	8,410,586

**Table 3.5 Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.) .
Somali Region**

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Femal	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 18	-	-	-	988	751	1,739	-	1,308	1,308	988	2,059	3,047
18 – 20	-	-	-	5,013	12,809	17,822	3,190	1,574	4,765	8,204	14,383	22,587
21 – 24	90	-	90	10,715	13,153	23,868	2,400	2,735	5,135	13,205	15,888	29,093
25 – 29	577	-	577	42,816	49,509	92,325	12,282	3,994	16,276	55,675	53,503	109,178
30 – 39	1,877	213	2,089	148,361	113,335	261,696	25,371	14,400	39,771	175,609	127,947	303,556
40 – 49	757	744	1,501	167,228	96,710	263,938	27,849	14,867	42,716	195,834	112,320	308,155
50 – 59	1,257	205	1,462	81,920	59,753	141,673	13,529	8,109	21,639	96,707	68,066	164,773
>=60	1,584	-	1,584	77,775	56,710	134,485	16,736	2,336	19,072	96,096	59,045	155,141
All	6,142	1,161	7,303	534,817	402,729	937,547	101,358	49,323	150,681	642,318	453,213	1,095,530

**Table 3.6 Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.) .
Benishangul – Gumuz Region**

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 18	376	-	376	-	-	-	194	-	194	570	-	570
18 – 20	1,138	-	1,138	571	-	571	1,051	316	1,367	2,761	316	3,076
21 – 24	1,816	354	2,170	260	-	260	4,210	797	5,008	6,286	1,152	7,438
25 – 29	6,167	1,415	7,582	-	105	105	19,952	1,868	21,819	26,119	3,387	29,506
30 – 39	9,450	5,194	14,644	99	797	896	50,018	5,217	55,234	59,566	11,208	70,774
40 – 49	3,936	2,473	6,409	-	-	-	34,521	7,491	42,012	38,457	9,964	48,421
50 – 59	2,655	2,113	4,768	-	-	-	21,341	6,174	27,515	23,996	8,287	32,283
>=60	3,472	2,687	6,159	103	-	103	35,233	9,669	44,903	38,809	12,356	51,165
All	29,011	14,235	43,246	1,033	902	1,934	166,521	31,531	198,052	196,564	46,668	243,232

**Table 3.7 Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.) .
S.N.N.P. Region**

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 18	3,032	1,510	4,542	16,268	4,831	21,099	4,106	2,170	6,276	23,405	8,512	31,917
18 – 20	9,305	1,533	10,838	10,886	4,626	15,512	23,530	1,125	24,655	43,720	7,284	51,005
21 – 24	25,267	1,783	27,050	6,681	3,834	10,515	72,545	5,657	78,202	104,493	11,274	115,767
25 – 29	87,715	16,258	103,973	11,974	7,673	19,646	339,005	40,123	379,128	438,694	64,053	502,748
30 – 39	152,630	33,065	185,696	11,957	9,295	21,252	1,051,727	179,700	1,231,428	1,216,315	222,060	1,438,375
40 – 49	72,359	37,609	109,968	11,670	4,810	16,481	937,922	253,485	1,191,407	1,021,951	295,904	1,317,856
50 – 59	34,649	22,548	57,197	7,914	2,741	10,654	537,444	184,630	722,074	580,006	209,919	789,925
>=60	53,868	64,379	118,247	6,910	4,876	11,786	643,975	206,681	850,656	704,752	275,937	980,689
All	438,826	178,686	617,511	84,260	42,685	126,945	3,610,253	873,572	4,483,825	4,133,338	1,094,944	5,228,282

**Table 3.8 Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.) .
Sidama Region**

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 18	-	-	-	-	-	-	4,528	-	4,528	4,528	-	4,528
18 – 20	9,330	-	9,330	-	-	-	9,070	-	9,070	18,401	-	18,401
21 – 24	34,991	-	34,991	-	-	-	41,468	-	41,468	76,459	-	76,459
25 – 29	132,895	22,482	155,377	-	-	-	463,721	29,664	493,385	596,617	52,146	648,763
30 – 39	181,036	13,076	194,112	-	-	-	1,016,951	123,519	1,140,469	1,197,987	136,595	1,334,582
40 – 49	107,992	46,138	154,130	-	-	-	696,577	104,991	801,568	804,569	151,130	955,698
50 – 59	44,486	22,814	67,300	-	-	-	432,299	103,381	535,680	476,784	126,195	602,979
>=60	86,601	46,469	133,070	-	-	-	496,291	72,156	568,447	582,892	118,625	701,517
All	597,331	150,980	748,310	-	-	-	3,160,906	433,711	3,594,617	3,758,237	584,691	4,342,927

**Table 3.9 Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.) .
Gambela Region**

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 10	13	15	28	-	-	-	24	-	24	37	15	52
18 – 20	296	53	349	-	40	40	447	218	665	743	311	1,054
21 – 24	513	-	513	224	72	297	882	199	1,082	1,619	271	1,891
25 – 29	1,282	393	1,675	80	188	268	2,775	445	3,220	4,137	1,026	5,162
30 – 39	2,943	701	3,643	554	247	802	8,174	1,589	9,763	11,671	2,537	14,207
40 – 49	1,421	680	2,100	282	81	363	6,653	1,964	8,617	8,356	2,724	11,080
50 – 59	879	415	1,295	102	78	180	3,055	1,216	4,271	4,037	1,709	5,745
>=60	1,236	471	1,706	204	-	204	2,477	1,038	3,515	3,917	1,509	5,426
All	8,581	2,728	11,309	1,447	705	2,152	24,488	6,668	31,156	34,517	10,101	44,618

**Table 3.10 Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.) .
Harari Region**

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 10	-	-	-	-	-	-	-	-	-	-	-	-
18 – 20	82	71	154	-	-	-	542	-	542	624	71	696
21 – 24	348	94	442	-	-	-	1,515	-	1,515	1,863	94	1,957
25 – 29	1,108	332	1,441	-	-	-	4,219	229	4,448	5,327	561	5,888
30 – 39	2,713	697	3,410	96	-	96	13,448	889	14,337	16,257	1,586	17,842
40 – 49	673	82	756	-	-	-	9,107	1,314	10,421	9,780	1,396	11,176
50 – 59	855	338	1,192	37	85	123	3,519	1,744	5,263	4,412	2,167	6,578
>=60	627	556	1,183	-	181	181	3,161	1,872	5,033	3,787	2,609	6,396
All	6,406	2,171	8,577	133	267	400	35,510	6,048	41,558	42,050	8,485	50,534

**Table 3.11 Distribution of Holders by Age, Holding type and Sex, 2020/21 (2013 E.C.) .
Dire Dawa**

Holder's Age	Holding type											
	Crop			Livestock			Crop & Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Under 10	-	-	-	-	-	-	155	-	155	155	-	155
18 – 20	-	-	-	-	-	-	291	-	291	291	-	291
21 – 24	-	-	-	15	65	80	917	56	972	931	121	1,052
25 – 29	226	70	296	723	130	853	3,639	303	3,941	4,588	504	5,091
30 – 39	56	15	70	2,990	962	3,952	8,260	810	9,070	11,305	1,787	13,092
40 – 49	136	386	522	2,257	861	3,118	6,513	1,087	7,600	8,905	2,335	11,240
50 – 59	65	-	65	666	590	1,256	4,582	893	5,475	5,313	1,483	6,796
>=60	80	375	455	729	427	1,156	3,230	950	4,180	4,039	1,751	5,790
All	563	846	1,409	7,380	3,035	10,415	27,586	4,098	31,684	35,529	7,980	43,508

Table 4: Distribution of Holders by Educational level , Holding Type and Sex, 2020/21 (2013 E.C.) .

Ethiopia

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	694,110	635,040	1,329,150	588,617	542,815	1,131,432	6,642,581	2,381,663	9,024,244	7,925,308	3,559,517	11,484,826
Literate (Informal Ed)	125,201	25,143	150,344	125,416	52,800	178,216	1,616,911	110,447	1,727,357	1,867,528	188,390	2,055,917
Grades 1 – 3	278,067	41,680	319,747	64,958	25,249	90,207	2,239,154	181,729	2,420,883	2,582,179	248,658	2,830,837
Grades 4 – 6	400,792	41,299	442,091	98,273	26,748	125,021	3,008,973	148,460	3,157,433	3,508,037	216,507	3,724,545
Grades 7 – 8	233,058	14,279	247,336	59,076	20,272	79,348	1,464,035	51,158	1,515,193	1,756,169	85,708	1,841,877
Grades 9 – 11	124,402	8,361	132,763	36,805	11,326	48,131	688,063	22,241	710,304	849,271	41,928	891,198
Grade 12	5,599	932	6,530	4,029	386	4,414	62,506	2,098	64,604	72,133	3,415	75,549
Above grade12	136,864	8,754	145,618	34,546	13,229	47,775	646,068	23,698	669,766	817,479	45,681	863,159
All	1,998,093	775,487	2,773,580	1,011,721	692,822	1,704,543	16,368,290	2,921,495	19,289,784	19,378,103	4,389,804	23,767,907

Table 4.1 : Distribution of Holders by Educational level , Holding Type and Sex, 2020/21 (2013 E.C.) .

Tigray Region

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	39,785	59,557	99,342	9,396	29,040	38,436	388,523	178,335	566,858	437,704	266,932	704,636
Literate (Informal Ed)	10,402	1,629	12,031	5,595	918	6,513	170,394	8,046	178,440	186,391	10,592	196,984
Grades 1 – 3	11,453	3,137	14,590	3,302	1,978	5,280	124,837	12,501	137,337	139,592	17,616	157,207
Grades 4 – 6	12,115	1,790	13,905	5,939	4,218	10,157	123,414	11,160	134,574	141,469	17,167	158,636
Grades 7 – 8	6,287	958	7,245	3,641	683	4,324	49,425	1,756	51,181	59,354	3,396	62,750
Grades 9 – 11	9,680	1,893	11,573	5,532	2,835	8,367	29,576	3,210	32,786	44,787	7,939	52,726
Grade 12	218	-	218	602	365	967	328	331	658	1,147	696	1,843
Above grade 12	2,263	-	2,263	937	331	1,268	4,412	331	4,743	7,612	662	8,274
All	92,203	68,964	161,167	34,944	40,368	75,312	890,909	215,669	1,106,577	1,018,055	325,001	1,343,056

REMARK: Due to the condition in the Region we didn't cover the 2013 EC sample survey but we used the 2012 EC result as proxy

**Table 4.2 :Distribution of Holders by Educational level , Holding Type and Sex, 2020/21 (2013 E.C.) .
Afar Region**

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	502	129	631	52,803	20,767	73,570	6,667	1,539	8,206	59,973	22,435	82,407
Literate (Informal Ed)	-	-	-	1,560	276	1,836	727	-	727	2,288	276	2,564
Grades 1 – 3	-	-	-	1,277	420	1,697	538	18	556	1,815	439	2,253
Grades 4 – 6	-	-	-	1,645	430	2,076	369	53	423	2,015	484	2,498
Grades 7 – 8	43	-	43	1,129	336	1,465	353	-	353	1,525	336	1,861
Grades 9 - 11	71	-	71	664	184	847	54	-	54	789	184	972
Grade 12	-	-	-	76	-	76	-	9	9	76	9	85
Above grade 12	-	-	-	708	26	734	157	-	157	865	26	891
All	616	129	744	59,863	22,440	82,303	8,866	1,619	10,485	69,345	24,187	93,532

**Table 4.3 :Distribution of Holders by Educational level , Holding Type and Sex, 2020/21 (2013 E.C.) .
Amahara Region**

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	180,433	181,118	361,551	26,175	66,953	93,128	1,955,516	500,751	2,456,267	2,162,124	748,822	2,910,946
Literate (Informal Ed)	50,160	5,152	55,312	9,456	4,536	13,992	760,326	29,007	789,333	819,942	38,695	858,637
Grades 1 – 3	29,006	4,588	33,595	11,379	2,839	14,218	258,522	15,995	274,517	298,908	23,422	322,330
Grades 4 – 6	44,020	8,511	52,531	23,328	7,853	31,182	389,938	11,634	401,572	457,287	27,998	485,285
Grades 7 – 8	31,485	5,621	37,106	19,143	5,958	25,101	182,741	5,549	188,289	233,368	17,128	250,496
Grades 9 – 11	15,923	2,310	18,234	14,508	2,513	17,021	63,117	2,657	65,774	93,548	7,481	101,029
Grade 12	367	-	367	782	-	782	8,494	-	8,494	9,644	-	9,644
Above grade 12	20,021	3,750	23,771	4,638	5,910	10,547	64,583	6,296	70,879	89,241	15,956	105,198
All	371,416	211,051	582,467	109,409	96,562	205,971	3,683,237	571,890	4,255,127	4,164,062	879,502	5,043,564

**Table 4.4 :Distribution of Holders by Educational level , Holding Type and Sex, 2020/21 (2013 E.C.) .
Oromia Region**

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	247,298	247,298	176,060	423,358	65,289	55,361	120,650	2,334,045	760,228	3,094,274	2,646,632	3,638,281
Literate (Informal Ed)	44,915	44,915	13,740	58,655	12,393	3,283	15,676	510,820	47,089	557,909	568,128	632,240
Grades 1 – 3	124,824	124,824	12,530	137,354	29,164	5,707	34,871	1,055,992	63,913	1,119,906	1,209,981	1,292,131
Grades 4 – 6	144,944	144,944	11,056	156,000	38,832	8,119	46,951	1,195,137	44,841	1,239,978	1,378,912	1,442,929
Grades 7 – 8	87,672	87,672	2,842	90,513	14,723	6,084	20,808	589,450	15,157	604,607	691,845	715,928
Grades 9 – 11	43,487	43,487	1,357	44,844	7,172	776	7,948	278,365	6,267	284,632	329,023	337,423
Grade 12	3,683	3,683	888	4,571	601	-	601	24,796	788	25,584	29,080	30,756
Above grade12	48,843	48,843	1,553	50,396	10,260	3,800	14,059	250,505	5,937	256,442	309,608	320,898
All	745,665	745,665	220,026	965,691	178,435	83,130	261,564	6,239,109	944,221	7,183,330	7,163,209	8,410,586

**Table 4.5:Distribution of Holders by Educational level , Holding Type and Sex, 2020/21 (2013 E.C.) .
Somale Region**

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	3,836	1,071	4,907	395,719	344,965	740,684	71,184	45,157	116,341	470,739	391,193	861,932
Literate (Informal Ed)	1,394	90	1,484	92,975	43,346	136,321	12,952	3,182	16,134	107,321	46,618	153,939
Grades 1 – 3	-	-	-	13,746	9,561	23,307	7,870	819	8,689	21,616	10,380	31,996
Grades 4 – 6	215	-	215	10,608	1,485	12,093	2,694	106	2,800	13,517	1,591	15,108
Grades 7 – 8	333	-	333	8,444	1,492	9,936	3,531	59	3,590	12,307	1,551	13,859
Grades 9 – 11	153	-	153	2,691	1,744	4,435	2,576	-	2,576	5,420	1,744	7,164
Grade 12	90	-	90	1,692	-	1,692	231	-	231	2,013	-	2,013
Above grade12	122	-	122	8,943	135	9,078	320	-	320	9,385	135	9,520
All	6,142	1,161	7,303	534,817	402,729	937,547	101,358	49,323	150,681	642,318	453,213	1,095,530

Table 4.6: Distribution of Holders by Educational level , Holding Type and Sex, 2020/21 (2013 E.C.) .

Benshangule Gumz Region

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	11,854	10,521	22,375	-	902	902	77,400	26,677	104,077	89,254	38,100	127,354
Literate (Informal Ed)	2,913	550	3,463	103	-	103	15,227	265	15,492	18,243	815	19,058
Grades 1 – 3	3,616	895	4,511	-	-	-	20,700	1,478	22,177	24,316	2,373	26,688
Grades 4 – 6	4,845	1,507	6,352	-	-	-	29,901	1,693	31,594	34,747	3,199	37,946
Grades 7 – 8	2,952	-	2,952	84	-	84	10,575	801	11,376	13,610	801	14,412
Grades 9 - 11	1,337	212	1,549	93	-	93	5,491	618	6,109	6,920	830	7,751
Grade 12	178	-	178	-	-	-	178	-	178	356	-	356
Above grade 12	1,315	550	1,865	753	-	753	7,049	-	7,049	9,118	550	9,668
All	29,011	14,235	43,246	1,033	902	1,934	166,521	31,531	198,052	196,564	46,668	243,232

Table 4.7 : Distribution of Holders by Educational level , Holding Type and Sex, 2020/21 (2013 E.C.)

S.N.N.P.R Region

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	144,306	142,989	287,295	35,335	21,580	56,915	1,366,701	696,975	2,063,676	1,546,343	861,543	2,407,886
Literate (Informal Ed)	8,408	3,828	12,236	3,201	440	3,641	126,411	22,573	148,984	138,020	26,841	164,861
Grades 1 – 3	65,632	15,638	81,270	5,600	4,607	10,207	507,468	66,530	573,998	578,700	86,776	665,475
Grades 4 – 6	98,441	11,126	109,566	16,393	4,507	20,900	756,266	53,707	809,974	871,100	69,340	940,440
Grades 7 – 8	53,002	2,350	55,353	10,597	5,480	16,077	413,646	20,523	434,169	477,245	28,353	505,599
Grades 9 – 11	31,948	108	32,056	5,874	3,122	8,996	210,643	7,034	217,678	248,465	10,264	258,729
Grade 12	1,062	44	1,106	-	-	-	25,998	970	26,968	27,060	1,014	28,074
Above grade 12	36,027	2,603	38,630	7,260	2,949	10,209	203,119	5,260	208,379	246,405	10,812	257,217
All	438,826	178,686	617,511	84,260	42,685	126,945	3,610,253	873,572	4,483,825	4,133,338	1,094,944	5,228,282

Table 4.8 :Distribution of Holders by Educational level , Holding Type and Sex, 2020/21 (2013 E.C.) .

Sidama Region

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	61,366	60,170	121,536	-	-	-	401,911	158,271	560,181	463,276	218,441	681,717
Literate (Informal Ed)	6,333	-	6,333	-	-	-	15,635	-	15,635	21,968	-	21,968
Grades 1 – 3	41,306	4,411	45,717	-	-	-	252,666	19,806	272,472	293,972	24,217	318,189
Grades 4 – 6	93,171	6,623	99,794	-	-	-	497,992	24,363	522,355	591,163	30,986	622,149
Grades 7 – 8	49,572	2,232	51,804	-	-	-	207,479	6,906	214,384	257,051	9,138	266,189
Grades 9 – 11	20,460	2,054	22,514	-	-	-	94,418	2,054	96,472	114,878	4,108	118,986
Grade 12	-	-	-	-	-	-	2,404	-	2,404	2,404	-	2,404
Above grade 12	26,457	-	26,457	-	-	-	107,949	5,456	113,405	134,405	5,456	139,862
All	298,665	75,490	374,155	-	-	-	1,580,453	216,855	1,797,308	1,879,118	292,345	2,171,464

Table 4.9 :Distribution of Holders by Educational level , Holding Type and Sex, 2020/21 (2013 E.C.)

Gambella Region

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	2,668	1,620	4,288	669	354	1,023	9,356	4,550	13,906	12,693	6,525	19,217
Literate (Informal Ed)	349	70	419	-	-	-	248	53	301	597	124	721
Grades 1 – 3	1,288	227	1,515	92	19	111	2,033	419	2,452	3,413	665	4,078
Grades 4 – 6	1,560	221	1,781	260	55	316	4,455	594	5,049	6,276	870	7,145
Grades 7 – 8	1,070	276	1,346	133	91	224	2,258	351	2,609	3,461	718	4,179
Grades 9 - 11	543	148	690	127	86	213	1,909	284	2,193	2,578	518	3,096
Grade 12	-	-	-	-	20	20	78	-	78	78	20	98
Above grade 12	1,103	167	1,269	167	79	246	4,151	417	4,568	5,421	663	6,083
All	8,581	2,728	11,309	1,447	705	2,152	24,488	6,668	31,156	34,517	10,101	44,618

**Table 4.10 :Distribution of Holders by Educational level , Holding Type and Sex
2020/21 (2013 E.C.)**

Harari Region

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	1,927	1,130	3,057	-	267	267	14,834	5,295	20,128	16,760	6,691	23,451
Literate (Informal Ed)	167	85	251	-	-	-	2,583	154	2,738	2,750	239	2,989
Grades 1 – 3	876	254	1,130	-	-	-	6,122	173	6,294	6,998	427	7,424
Grades 4 – 6	1,345	410	1,754	96	-	96	5,083	309	5,393	6,524	719	7,243
Grades 7 – 8	642	-	642	37	-	37	3,222	-	3,222	3,901	-	3,901
Grades 9 - 11	802	176	978	-	-	-	1,030	117	1,147	1,832	293	2,124
Grade 12	-	-	-	-	-	-	-	-	-	-	-	-
Above grade 12	649	117	765	-	-	-	2,636	-	2,636	3,285	117	3,401
All	6,406	2,171	8,577	133	267	400	35,510	6,048	41,558	42,050	8,485	50,534

**Table 4.11 :Distribution of Holders by Educational level , Holding Type and Sex,
2020/21 (2013 E.C.) .**

Dire Dawa

Educational level	Holding Type											
	Crop Only			Livestock Only			Crop and Livestock			All		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
Illiterate	136	674	810	3,231	2,626	5,857	16,443	3,887	20,330	19,810	7,186	26,997
Literate (Informal Ed)	160	-	160	132	-	132	1,587	78	1,665	1,879	78	1,957
Grades 1 – 3	65	-	65	399	117	516	2,406	78	2,484	2,871	195	3,066
Grades 4 – 6	136	56	191	1,171	80	1,251	3,722	-	3,722	5,029	136	5,164
Grades 7 – 8	-	-	-	1,145	147	1,291	1,356	56	1,412	2,501	202	2,703
Grades 9 - 11	-	102	102	147	65	212	884	-	884	1,031	168	1,198
Grade 12	-	-	-	275	-	275	-	-	-	275	-	275
Above grade 12	65	15	80	881	-	881	1,187	-	1,187	2,133	15	2,148
All	563	846	1,409	7,380	3,035	10,415	27,586	4,098	31,684	35,529	7,980	43,508

Table 5: Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.)

Ethiopia

Crop	No.of	Holding size in hectare							
	Holders	Total	Under 0.10	0.10 – 0.50	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over 10
Cereals	16,976,058	10,538,343	27,967	838,972	1,960,966	3,613,512	3,294,210	548,254	254,461
Teff	7,500,380	2,928,207	2,894	176,668	529,097	1,041,116	972,981	159,356	46,094
Barley	4,158,007	926,107	2,202	88,214	187,670	323,602	278,864	42,068	3,487
Wheat	4,966,269	1,897,405	1,971	122,841	326,648	657,895	651,002	104,515	32,533
Maize	11,025,137	2,526,213	16,838	275,668	508,310	833,972	708,526	121,888	61,011
Sorghum	4,882,003	1,679,277	3,789	148,802	315,827	531,155	506,775	98,912	74,017
Finger millet	1,913,024	480,343	273	21,071	76,400	189,541	144,055	18,116	30,887
Oats / 'Aja'	170,147	15,502	*	916	2,326	5,756	4,922	695	888
Rice	233,100	85,289	-	4,792	14,688	30,477	27,084	2,704	5,544
Pulses	8,891,073	1,674,951	5,820	153,367	290,498	526,757	553,720	109,615	35,173
Horse beans	4,373,795	504,570	2,427	51,712	100,568	169,622	151,910	27,147	1,184
Field peas	1,693,822	219,928	540	23,402	44,827	73,742	62,100	8,761	6,556
Haricot beans white	886,658	103,289	333	11,937	26,143	33,727	26,361	4,780	8
Haricot beans red	2,147,959	208,295	1,941	41,901	44,214	57,582	56,431	5,256	969
Chickpeas	786,569	177,547	148	6,207	19,734	55,915	75,541	14,879	5,124
Lentils	185,776	43,172	73	1,313	4,198	13,273	18,650	5,108	559
Grass peas/vetch	433,610	84,512	52	4,780	13,663	23,039	26,765	16,200	12
Soya beans	769,827	143,894	84	4,682	18,216	50,556	62,065	6,473	1,817
Fenugreek	181,512	83,797	46	809	3,654	16,578	28,689	16,539	17,482
Mung bean/"Masho"	432,422	42,344	154	3,255	5,214	13,748	15,361	3,276	1,336
Gibto	194,166	48,022	12	2,965	9,018	13,648	21,163	1,090	126
Oil seeds	86,337	15,581	11	404	1,048	5,328	8,685	105	-
Neug	2,514,247	766,168	279	18,799	58,831	186,843	326,923	120,310	54,183
Linseed	677,239	191,766	11	2,575	13,596	57,161	91,915	17,256	9,250
Groundnuts	655,503	78,921	28	3,477	12,352	24,395	32,831	3,350	2,489
Safflower	502,766	113,515	92	7,745	16,289	35,240	35,054	7,371	11,724
Sesame	123,878	4,151	9	615	676	2,000	794	8	47
Rapeseed	454,773	369,897	44	3,746	14,345	64,789	164,327	91,974	30,671
Vegetables	426,469	7,917	95	640	1,572	3,258	2,002	350	1
Lettuce	7,334,889	243,569	3,165	31,070	43,257	76,170	75,125	13,584	1,197
Head cabbage	55,768	1,236	4	109	115	522	415	72	-
Ethiopian cabbage	461,438	6,650	84	1,252	1,149	1,396	2,749	14	5
Tomatoes	4,471,397	44,465	2,373	15,330	11,950	9,504	3,748	1,532	29
Green peppers	218,392	6,434	52	1,559	1,674	911	1,251	941	46
Red peppers	1,260,423	14,691	236	1,319	3,039	4,469	4,429	1,188	12
Swiss chard	2,135,467	168,346	402	11,437	25,249	59,231	61,251	9,672	1,105
Root crops	123,125	1,748	15	65	83	139	1,282	164	*
Beetroot	6,945,168	307,296	6,066	69,338	72,869	85,452	43,293	4,244	26,034
Carrot	455,649	3,149	85	695	670	980	658	45	17
Onion	234,243	3,717	118	787	1,048	889	499	374	2
Potatoes	727,171	38,953	242	3,198	9,657	15,783	9,874	190	9
Yam	1,049,014	85,988	424	13,191	19,957	34,519	15,855	1,975	66
Garlic	348,725	4,874	224	2,506	891	852	400	1	-
Taro / Godere	1,363,055	15,980	189	2,326	3,017	4,335	5,529	580	4
Sweet potatoes	2,830,659	92,518	2,935	25,041	19,040	14,254	4,859	590	25,800
Other `temporary	2,172,976	62,117	1,850	21,594	18,588	13,840	5,619	488	136
Permanent crops	2,973,121	103,661	1,845	21,202	22,183	24,462	17,102	5,787	11,081
Coffee	14,945,279	1,973,791	64,891	532,567	443,604	467,070	336,314	47,997	81,347
Chat	7,749,319	856,592	17,354	150,922	157,013	229,001	215,979	37,805	48,518
Fruit crops	4,119,637	339,537	7,323	109,829	99,077	82,013	37,613	3,209	474
Gesho	7,022,117	161,471	5,927	45,451	32,041	35,082	22,338	2,659	17,974
Sugar cane	2,913,127	33,370	935	4,662	7,228	12,179	7,963	392	11
Other permanent	1,653,754	29,520	801	9,900	8,794	7,196	2,695	103	29

Table 5.1 Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.)

Tigray Region

Crop	No.of Holders	Holding size in hectare							
		Total	Under	0.10 –	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over 10
Cereals	1,237,775	779,520	3,019	101,639	209,089	294,334	162,338	9,102	-
Teff	633,525	188,392	261	24,283	58,005	75,021	30,427	395	-
Barley	419,786	85,432	345	15,773	27,273	29,761	11,345	936	-
Wheat	386,778	102,258	297	20,263	31,020	35,120	14,864	695	-
Maize	835,782	80,152	1,416	14,868	28,180	27,324	8,317	46	-
Sorghum	558,917	232,636	581	19,282	45,342	87,147	73,457	6,827	-
Finger millet	369,685	90,200	120	7,134	19,154	39,662	23,926	204	-
Oats / ‘Aja’	814	57	-	36	21	-	-	-	-
Rice	2,605	392	-	-	93	300	-	-	-
Pulses	405,006	46,577	169	8,442	14,280	15,748	7,666	273	-
Horse beans	214,391	11,868	91	3,631	5,194	2,611	341	-	-
Field peas	94,466	7,741	40	2,086	2,711	2,538	343	23	-
Haricot beans	33,903	3,516	-	155	575	1,348	1,438	-	-
Haricot beans	1,968	42	1	-	17	10	7	8	-
Chickpeas	35,361	7,556	18	1,009	1,588	2,997	1,887	57	-
Lentils	1,677	115	-	1	46	68	-	-	-
Grass	59,064	6,930	13	1,006	2,097	2,510	1,259	44	-
Soya beans	39,081	7,175	-	356	1,653	3,309	1,755	102	-
Fenugreek	3,571	184	-	34	108	42	-	-	-
Mung	13,199	604	7	96	103	257	107	34	-
Gibto	4,137	847	-	68	189	57	528	6	-
Oil seeds	-	-	-	-	-	-	-	-	-
Neug	216,195	119,570	27	1,951	10,639	41,181	54,681	11,090	-
Linseed	30,675	5,598	6	302	1,254	2,625	1,412	-	-
Groundnuts	48,592	4,138	-	186	1,154	1,779	1,018	-	-
Safflower	6,910	1,391	-	-	149	912	330	-	-
Sesame	5,755	123	-	1	67	40	14	-	-
Rapeseed	145,151	108,291	17	1,461	7,996	35,823	51,904	11,090	-
Vegetables	3,197	28	4	1	19	2	3	-	-
Lettuce	255,556	3,965	76	431	1,364	1,088	1,000	6	-
Head cabbage	6,339	45	1	8	28	8	*	-	-
Ethiopian	5,592	229	-	29	170	30	*	-	-
Tomatoes	2,722	24	-	10	1	11	1	-	-
Green peppers	6,846	973	-	102	246	225	399	-	-
Red peppers	40,774	471	5	27	234	50	155	-	-
Swiss chard	198,860	2,210	70	251	676	763	444	6	-
Root crops	7,066	13	*	2	10	*	*	-	-
Beetroot	72,185	2,096	25	399	679	750	243	-	-
Carrot	1,997	24	8	1	-	-	16	-	-
Onion	5,678	86	4	39	3	40	-	-	-
Potatoes	24,990	1,306	-	214	425	544	123	-	-
Yam	10,133	370	5	33	160	75	97	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro / Godere	34,909	309	9	112	91	92	6	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other	1,176	1	*	*	-	*	-	-	-
Permanent	10,054	123	1	27	78	11	6	-	-
Coffee	257,560	9,152	180	2,599	2,505	2,594	1,274	-	-
Chat	8,665	63	3	13	19	8	20	-	-
Fruit crops	13,241	1,653	6	739	310	518	80	-	-
Gesho	56,072	937	10	197	252	294	183	-	-
Sugar cane	164,985	1,858	42	523	585	540	168	-	-
Other	935	14	-	-	14	*	-	-	-

Table 5.2 Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.) .
Afar Region

Crop	No.of Holders	Holding size in hectare							
		Total	Under	0.10 –	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over
Cereals	9,524	7,645	33	501	1,934	2,545	1,869	762	-
Teff	2,257	1,848	2	40	210	666	855	75	-
Barley	1,393	473	6	156	213	98	-	-	-
Wheat	386	57	3	2	31	21	-	-	-
Maize	5,321	2,933	19	234	1,243	1,003	189	246	-
Sorghum	2,651	2,333	4	69	237	758	825	442	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats / ‘Aja’	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	898	1,022	-	6	38	372	245	360	-
Horse beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-	-
Chickpeas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Grass	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung	-	-	-	-	-	-	-	-	-
Gibto	898	1,022	-	6	38	372	245	360	-
Oil seeds	-	-	-	-	-	-	-	-	-
Neug	199	78	1	39	-	-	38	-	-
Linseed	-	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	199	78	1	39	-	-	38	-	-
Vegetables	-	-	-	-	-	-	-	-	-
Lettuce	119	25	1	-	23	*	*	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Ethiopian	-	-	-	-	-	-	-	-	-
Tomatoes	28	*	-	-	-	-	*	-	-
Green peppers	-	-	-	-	-	-	-	-	-
Red peppers	28	*	-	-	-	*	-	-	-
Swiss chard	64	24	1	-	23	-	-	-	-
Root crops	-	-	-	-	-	-	-	-	-
Beetroot	384	188	3	45	45	17	-	79	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	384	188	3	45	45	17	-	79	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Permanent	435	687	*	8	64	64	202	349	-
Coffee	222	65	2	7	-	56	-	-	-
Chat	-	-	-	-	-	-	-	-	-
Fruit crops	-	-	-	-	-	-	-	-	-
Gesho	110	7	2	5	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-

Table 5.3 Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.) .
Amhara Region

Crop	No.of Holders	Holding size in hectare							
		Total	Under	0.10 –	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over 10
Cereals	4,601,354	3,545,299	8,230	204,338	626,791	1,367,511	1,097,829	165,083	75,518
Teff	2,703,282	1,086,375	876	55,995	194,450	443,722	347,792	36,169	7,370
Barley	1,290,159	311,401	332	21,180	63,003	125,251	93,322	8,251	62
Wheat	1,906,639	641,170	732	38,826	131,418	272,465	181,814	15,916	-
Maize	2,978,454	595,086	5,415	42,643	95,627	216,285	176,035	33,942	25,139
Sorghum	1,191,608	597,441	767	36,781	97,259	184,189	207,548	57,689	13,207
Finger millet	754,110	259,903	108	5,556	34,194	100,266	77,386	12,755	29,639
Oats / ‘Aja’	63,597	4,561	-	264	980	2,557	731	30	-
Rice	123,973	49,361	-	3,093	9,860	22,776	13,203	329	101
Pulses	2,499,461	660,350	844	34,238	98,299	238,196	232,324	37,028	19,422
Horse beans	1,343,432	180,246	540	12,490	34,368	68,028	55,812	9,009	-
Field peas	432,175	61,147	40	4,097	12,054	22,767	19,711	2,479	-
Haricot beans	236,753	53,504	23	3,781	10,053	21,316	16,713	1,619	-
Haricot beans red	141,876	36,074	51	1,026	2,390	11,228	19,375	2,003	-
Chickpeas	423,268	67,756	71	2,720	7,803	28,254	22,384	2,890	3,635
Lentils	69,200	25,172	-	265	1,653	9,076	12,616	1,263	299
Grass peas/vetch	241,093	44,693	18	2,752	9,112	16,785	13,145	2,880	-
Soya beans	466,850	81,659	64	2,948	11,540	33,560	32,156	1,320	71
Fenugreek	54,304	46,893	-	244	791	4,658	13,150	12,747	15,303
Mung	168,868	15,014	14	1,214	2,517	7,785	3,459	24	-
Gibto	155,037	32,666	12	2,302	4,977	9,412	15,124	725	114
Oil seeds	84,564	15,525	11	399	1,041	5,327	8,678	71	-
Neug	915,731	326,829	151	3,356	12,149	56,268	144,153	87,326	23,425
Linseed	276,277	56,558	2	453	2,745	19,336	29,936	3,621	466
Groundnuts	273,220	19,881	7	910	3,310	7,784	6,520	1,349	-
Safflower	76,709	21,423	72	582	1,800	2,772	5,964	5,959	4,274
Sesame	64,658	2,286	6	311	358	1,013	599	-	-
Rapeseed	214,520	224,220	-	969	3,458	24,461	100,252	76,394	18,685
Vegetables	143,277	2,460	65	131	478	901	882	4	-
Lettuce	1,448,576	79,088	302	5,999	10,724	26,811	27,154	7,846	251
Head cabbage	20,882	1,029	1	75	43	424	414	72	-
Ethiopian cabbage	92,898	630	49	17	113	195	254	-	-
Tomatoes	291,100	2,870	18	379	417	755	330	970	-
Green peppers	46,887	466	8	66	166	94	82	4	46
Red peppers	166,379	2,033	46	309	438	573	441	226	-
Swiss chard	954,069	70,516	174	5,139	9,512	24,661	24,415	6,410	205
Root crops	42,613	1,544	6	13	35	109	1,217	164	-
Beetroot	1,216,667	52,382	237	3,419	12,190	21,081	14,340	1,048	67
Carrot	67,356	554	19	92	120	174	148	2	-
Onion	51,963	1,110	7	176	291	262	242	131	-
Potatoes	221,721	14,078	17	902	3,529	7,094	2,527	9	-
Yam	388,302	29,081	89	1,648	6,383	11,117	8,928	850	66
Garlic	3,203	25	-	1	-	16	7	1	-
Taro / Godere	689,760	7,168	96	586	1,856	2,331	2,287	11	*
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other `temporary	29,488	366	9	14	11	87	201	45	-
Permanent crops	373,450	15,724	177	895	1,121	4,337	5,563	1,795	1,835
Coffee	2,201,265	59,439	1,442	10,917	16,785	18,692	10,324	1,266	13
Chat	487,439	11,972	122	1,553	4,177	3,343	2,700	71	6
Fruit crops	277,462	13,028	410	5,066	4,582	2,362	584	24	-
Gesho	589,391	5,824	152	1,242	960	1,730	1,530	209	1
Sugar cane	1,718,011	23,274	645	2,715	5,479	9,210	5,003	216	6
Other permanent	55,312	2,126	27	142	928	827	200	1	-

Table 5.4 Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.) .
Oromia Region

Crop	No.of Holders	Holding size in hectare							
		Total	Under 0.10	0.10 – 0.50	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over 10
Cereals	7,213,279	4,997,578	9,744	315,471	797,657	1,589,660	1,793,623	335,168	156,255
Teff	2,861,364	1,393,456	1,099	55,361	198,447	437,457	545,761	117,714	37,616
Barley	1,509,055	440,702	639	25,011	69,011	142,375	167,722	32,519	3,425
Wheat	1,832,546	996,364	290	34,988	117,105	295,510	430,594	85,345	32,533
Maize	5,205,203	1,371,868	6,322	133,079	258,019	457,371	422,758	67,223	27,096
Sorghum	2,321,488	676,075	1,374	59,299	132,285	211,389	190,069	27,593	54,066
Finger millet	627,821	97,267	20	5,864	18,720	39,014	29,222	3,796	631
Oats / ‘Aja’	94,768	10,582	-	550	1,281	3,183	4,015	665	888
Rice	70,209	11,263	-	1,318	2,788	3,362	3,482	313	-
Pulses	3,272,349	680,622	1,692	41,739	97,885	195,903	262,958	67,149	13,296
Horse beans	1,590,965	230,115	625	13,716	35,989	75,307	85,497	17,797	1,184
Field peas	531,737	85,941	178	4,797	12,479	27,121	28,910	5,900	6,556
Haricot beans white	440,161	35,456	240	4,097	10,874	9,247	7,837	3,153	8
Haricot beans red	797,972	84,593	368	11,717	15,788	28,076	25,258	2,418	969
Chickpeas	302,134	95,690	30	2,078	9,128	22,416	48,622	11,932	1,485
Lentils	72,486	14,488	72	473	975	3,619	5,850	3,499	-
Grass peas/vetch	121,259	32,598	20	967	2,349	3,642	12,348	13,259	12
Soya beans	263,451	55,049	20	1,379	5,013	13,687	28,154	5,052	1,746
Fenugreek	50,480	10,003	6	191	579	4,405	3,900	922	-
Mung bean/"Masho"	228,646	26,597	132	1,909	2,509	5,700	11,793	3,218	1,336
Gibto	18,365	10,093	-	416	2,203	2,684	4,789	-	-
Oil seeds	-	-	-	-	-	-	-	-	-
Neug	1,168,778	266,289	45	10,678	30,612	74,209	108,833	19,300	22,612
Linseed	350,051	119,918	1	1,686	8,978	33,655	57,916	13,411	4,271
Groundnuts	290,997	54,006	18	2,210	7,652	14,560	25,087	1,997	2,481
Safflower	308,927	57,721	10	5,438	10,909	20,829	15,624	800	4,112
Sesame	36,190	731	1	96	37	405	137	8	47
Rapeseed	65,536	28,670	*	779	2,020	2,440	8,995	2,737	11,699
Vegetables	259,166	5,242	14	469	1,017	2,321	1,074	346	1
Lettuce	2,669,286	107,135	810	10,050	17,187	36,952	36,098	5,621	417
Head cabbage	22,806	141	2	15	44	80	*	-	-
Ethiopian cabbage	268,506	4,198	17	730	479	870	2,083	14	5
Tomatoes	1,421,411	14,661	516	3,782	3,875	3,681	2,231	549	28
Green peppers	97,014	3,979	36	1,071	984	410	541	937	-
Red peppers	761,819	9,588	116	335	1,409	3,496	3,258	962	12
Swiss chard	774,190	74,447	120	4,085	10,389	28,400	27,921	3,159	373
Root crops	46,789	120	2	30	7	15	65	*	*
Beetroot	2,462,527	108,235	826	16,952	25,610	40,120	22,255	2,406	67
Carrot	304,665	2,105	29	406	423	745	458	43	*
Onion	94,985	1,851	97	234	524	521	230	243	2
Potatoes	350,107	18,778	176	1,539	3,992	6,669	6,295	98	9
Yam	302,572	41,734	59	6,091	9,265	19,282	6,180	857	-
Garlic	20,068	665	-	74	185	196	210	-	-
Taro / Godere	481,872	8,037	63	1,462	971	1,747	3,222	569	3
Sweet potatoes	678,705	7,720	123	1,259	2,284	2,637	1,005	364	47
Other temporary	869,665	27,345	279	5,887	7,966	8,323	4,654	232	6
Permanent crops	1,031,882	21,450	253	2,584	3,222	5,496	6,493	3,361	41
Coffee	5,289,863	1,035,188	10,097	166,636	226,375	308,210	256,044	40,933	26,892
Chat	2,767,857	584,441	3,241	59,374	100,454	181,607	180,682	33,132	25,951
Fruit crops	2,354,769	242,818	3,376	63,415	68,388	69,748	34,503	3,011	377
Gesho	2,447,559	46,844	798	7,847	9,303	15,220	11,359	2,061	256
Sugar cane	711,685	5,852	134	484	738	1,871	2,489	134	2
Other permanent	462,233	7,852	146	1,404	2,171	2,860	1,210	35	26

Table 5.5 Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.) .
Somali Region

Crop	No.of Holders	Holding size in hectare							
		Total	Under	0.10 –	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over
Cereals	143,365	102,850	542	15,102	18,702	33,367	27,018	7,100	1,019
Teff	2,223	578	4	206	-	367	-	-	-
Barley	79	23	*	-	-	23	-	-	-
Wheat	6,052	3,174	*	712	631	1,830	-	-	-
Maize	70,167	53,753	316	3,745	11,370	19,048	12,382	6,805	86
Sorghum	83,201	45,322	221	10,439	6,700	12,098	14,635	295	933
Finger millet	-	-	-	-	-	-	-	-	-
Oats / ‘Aja’	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	3,583	744	-	219	25	364	137	-	-
Horse beans	-	-	-	-	-	-	-	-	-
Field peas	443	38	-	32	5	-	-	-	-
Haricot beans white	837	180	-	43	-	-	137	-	-
Haricot beans red	2,303	483	-	100	20	364	-	-	-
Chickpeas	173	43	-	43	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Grass peas/vetch	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/"Masho"	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil seeds	-	-	-	-	-	-	-	-	-
Neug	958	330	-	17	111	152	50	-	-
Linseed	-	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-	-
Safflower	958	330	-	17	111	152	50	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-	-
Lettuce	4,091	736	20	51	18	110	537	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-	-
Green peppers	2,849	344	3	47	18	72	204	-	-
Red peppers	2,091	392	17	4	-	38	333	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-	-
Beetroot	7,886	3,357	33	108	1,245	1,155	816	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	7,772	3,356	33	107	1,245	1,155	816	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other `temporary	114	1	*	*	-	-	-	-	-
Permanent crops	177	1	1	-	-	-	-	-	-
Coffee	7,207	2,094	8	373	761	537	415	-	-
Chat	125	5	-	5	-	-	-	-	-
Fruit crops	2,539	657	-	90	97	380	90	-	-
Gesho	4,441	1,122	7	266	505	157	187	-	-
Sugar cane	-	-	-	-	-	-	-	-	-
Other permanent	-	-	-	-	-	-	-	-	-

**Table 5.6 Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.) .
Benishangul – Gumuz Region**

Crop	No.of Holders	Holding size in hectare							
		Total	Under	0.10 –	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over 10
Cereals	232,562	178,857	748	12,207	17,834	42,714	66,246	17,463	21,645
Teff	53,786	22,021	3	1,082	1,973	5,894	10,103	1,857	1,108
Barley	11,789	880	*	71	142	195	231	240	-
Wheat	10,905	1,903	*	44	203	367	1,023	267	-
Maize	210,036	71,803	560	5,285	7,810	15,537	26,670	7,251	8,690
Sorghum	79,085	39,742	185	4,267	5,676	9,490	9,645	4,677	5,802
Finger millet	56,751	23,554	*	1,369	1,752	7,843	10,842	1,131	617
Oats / ‘Aja’	28	1	-	-	-	-	1	-	-
Rice	19,393	18,954	-	88	278	3,388	7,731	2,041	5,428
Pulses	91,429	30,703	36	643	2,821	8,273	13,303	3,183	2,444
Horse beans	16,685	734	*	130	129	88	307	80	-
Field peas	11,579	812	*	111	104	190	332	75	-
Haricot beans white	7,343	775	3	63	230	324	146	9	-
Haricot beans red	17,242	1,556	19	134	300	287	719	98	*
Chickpeas	809	127	-	-	-	1	122	-	4
Lentils	1,013	297	1	1	-	9	28	-	259
Grass peas/vetch	1,886	19	-	-	2	-	*	17	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	49,585	26,305	14	195	2,039	7,368	11,639	2,871	2,180
Mung bean/"Masho"	2,129	11	*	8	3	-	-	-	-
Gibto	1,228	19	-	2	6	7	3	-	-
Oil seeds	1,132	49	-	-	7	-	7	34	-
Neug	113,069	46,029	17	1,727	3,893	12,315	17,455	2,477	8,146
Linseed	17,388	9,326	2	135	530	1,518	2,403	224	4,513
Groundnuts	8,478	380	*	13	65	136	154	4	8
Safflower	84,372	28,899	1	1,243	2,441	8,838	12,541	496	3,338
Sesame	1,652	138	*	-	-	111	26	-	-
Rapeseed	22,982	7,246	3	335	844	1,711	2,314	1,752	287
Vegetables	4,248	40	10	1	13	1	15	-	-
Lettuce	41,085	2,524	6	82	122	684	1,004	97	528
Head cabbage	-	-	-	-	-	-	-	-	-
Ethiopian cabbage	2,581	22	-	9	7	5	2	-	-
Tomatoes	12,296	73	2	13	17	26	15	-	2
Green peppers	2,916	6	1	1	1	3	*	-	-
Red peppers	5,228	11	1	1	1	3	6	-	-
Swiss chard	22,625	2,410	3	58	96	648	982	97	526
Root crops	377	*	-	-	*	-	-	-	-
Beetroot	48,064	1,373	32	160	182	311	395	144	148
Carrot	3,584	31	*	-	12	3	*	-	16
Onion	739	7	-	*	7	*	-	-	-
Potatoes	4,011	131	6	39	51	26	5	4	-
Yam	16,632	717	6	67	69	187	296	93	-
Garlic	59	*	-	-	-	-	*	-	-
Taro / Godere	12,699	21	*	5	3	5	7	-	1
Sweet potatoes	5,771	27	4	5	7	7	4	*	-
Other `temporary	20,163	437	16	45	34	83	82	47	131
Permanent crops	59,553	941	27	215	254	169	225	29	22
Coffee	141,452	3,962	96	783	779	1,171	833	73	227
Chat	24,067	730	16	52	227	216	205	10	4
Fruit crops	9,512	724	6	70	228	180	141	1	97
Gesho	129,572	2,376	72	643	305	738	439	59	120
Sugar cane	14,416	74	*	1	3	28	39	-	3
Other permanent	1,376	19	-	6	2	3	2	3	3

Table 5.7 Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.) .
S.N.N.P. Region

Crop	No.of Holders	Holding size in hectare							
		Total	Under 0.10	0.10 – 0.50	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over 10
Cereals	2,998,275	848,915	3,979	152,884	268,803	267,639	142,659	12,950	-
Teff	1,224,860	234,351	649	39,057	75,470	77,988	38,040	3,147	-
Barley	789,117	75,440	564	19,631	26,712	22,166	6,245	122	-
Wheat	761,835	147,641	418	25,110	45,390	51,723	22,707	2,293	-
Maize	1,372,318	313,799	1,881	54,919	96,534	92,654	61,589	6,222	-
Sorghum	562,834	62,926	453	12,704	20,428	19,742	8,661	938	-
Finger millet	98,958	9,362	13	1,105	2,579	2,756	2,679	229	-
Oats / ‘Aja’	10,940	301	*	66	44	16	176	-	-
Rice	16,562	5,095	-	291	1,647	594	2,564	-	-
Pulses	2,094,314	223,348	1,875	50,364	66,671	65,730	37,085	1,622	-
Horse beans	1,092,740	78,285	698	19,126	24,834	23,413	9,952	262	-
Field peas	593,686	62,856	171	11,688	16,854	21,052	12,805	284	-
Haricot beans white	56,785	2,226	52	408	379	1,298	89	-	-
Haricot beans red	872,962	66,322	899	17,808	19,926	15,888	11,072	730	-
Chickpeas	24,747	6,373	29	357	1,215	2,247	2,524	-	-
Lentils	41,399	3,100	-	573	1,525	501	156	346	-
Grass peas/vetch	10,307	272	*	54	103	102	13	-	-
Soya beans	445	11	-	-	11	-	-	-	-
Fenugreek	23,556	413	25	145	138	105	-	-	-
Mung bean/"Masho"	19,579	119	1	29	82	6	1	-	-
Gibto	14,497	3,364	-	171	1,605	1,116	473	-	-
Oil seeds	641	7	-	5	-	2	-	-	-
Neug	80,751	4,873	29	652	630	1,867	1,578	116	-
Linseed	2,831	364	-	-	89	28	248	-	-
Groundnuts	34,216	517	2	158	170	135	52	-	-
Safflower	9,183	1,701	-	101	105	902	477	116	-
Sesame	15,565	873	3	207	214	431	18	-	-
Rapeseed	5,629	1,289	23	163	8	339	756	-	-
Vegetables	14,188	129	1	23	44	34	27	-	-
Lettuce	2,482,210	47,182	1,543	12,350	13,453	10,494	9,328	14	-
Head cabbage	5,652	15	-	10	*	4	*	-	-
Ethiopian cabbage	85,991	1,544	18	441	379	296	409	*	-
Tomatoes	2,330,611	24,424	1,435	9,368	7,429	5,012	1,168	13	-
Green peppers	58,565	519	5	136	248	106	24	-	-
Red peppers	269,154	1,913	50	502	815	308	236	1	-
Swiss chard	164,385	18,697	29	1,874	4,552	4,752	7,490	-	-
Root crops	26,194	71	6	19	31	15	-	-	-
Beetroot	2,770,590	132,408	4,301	44,384	30,334	21,857	5,216	564	25,753
Carrot	75,206	373	29	135	115	59	35	-	-
Onion	75,787	584	9	276	206	66	27	-	-
Potatoes	116,661	1,098	6	342	366	278	107	-	-
Yam	308,899	13,440	231	4,937	3,884	3,859	353	175	-
Garlic	301,725	4,043	221	2,344	654	640	183	-	-
Taro / Godere	115,432	382	14	112	94	156	6	-	-
Sweet potatoes	2,084,677	84,120	2,546	23,463	16,702	11,597	3,835	225	25,753
Other temporary	999,893	28,368	1,243	12,775	8,313	5,203	670	164	-
Permanent crops	1,366,288	63,290	1,260	16,419	17,310	14,285	4,581	252	9,184
Coffee	4,801,154	550,374	24,302	174,984	124,149	107,342	62,066	3,315	54,215
Chat	3,010,357	171,395	7,343	44,925	31,551	35,076	27,563	2,381	22,557
Fruit crops	714,653	23,981	402	7,397	8,848	5,353	1,945	36	-
Gesho	2,799,606	88,441	3,015	25,751	17,113	16,188	8,459	317	17,597
Sugar cane	285,082	1,999	38	733	421	522	253	32	-
Other permanent	820,810	11,116	417	3,999	2,739	2,654	1,267	40	-

**Table 5.8 Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.) .
Sidama Region**

Crop	No.of Holders	Holding size in hectare							
		Total	Under 0.10	0.10 – 0.50	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over 10
Cereals	431,895	48,144	1,322	27,892	10,655	8,275	-	-	-
Teff	19,047	1,183	-	642	541	-	-	-	-
Barley	135,837	11,702	316	6,366	1,312	3,709	-	-	-
Wheat	60,326	4,782	231	2,865	826	860	-	-	-
Maize	292,008	30,421	762	17,976	7,977	3,706	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-
Finger millet	5,683	57	13	44	-	-	-	-	-
Oats / ‘Aja’	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	518,350	31,342	1,203	17,642	10,369	2,128	-	-	-
Horse beans	114,876	3,304	474	2,617	54	159	-	-	-
Field peas	29,142	1,383	110	587	613	73	-	-	-
Haricot beans white	108,596	7,485	15	3,342	3,954	174	-	-	-
Haricot beans red	311,615	19,171	604	11,096	5,749	1,722	-	-	-
Chickpeas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Grass peas/vetch	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/"Masho"	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil seeds	-	-	-	-	-	-	-	-	-
Neug	2,250	15	-	15	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	2,250	15	-	15	-	-	-	-	-
Lettuce	429,155	2,804	400	2,065	321	18	-	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Ethiopian cabbage	5,775	26	-	26	-	-	-	-	-
Tomatoes	411,057	2,365	395	1,768	184	18	-	-	-
Green peppers	2,433	110	-	110	-	-	-	-	-
Red peppers	13,599	270	-	135	136	-	-	-	-
Swiss chard	20,751	33	5	27	1	-	-	-	-
Root crops	-	-	-	-	-	-	-	-	-
Beetroot	347,408	6,772	588	3,673	2,445	67	-	-	-
Carrot	2,842	61	-	61	-	-	-	-	-
Onion	5,091	80	-	62	18	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-
Yam	22,248	638	34	408	195	-	-	-	-
Garlic	23,671	141	2	87	52	-	-	-	-
Taro / Godere	28,382	62	6	50	2	4	-	-	-
Sweet potatoes	55,533	522	251	271	-	-	-	-	-
Other temporary	238,760	5,267	294	2,733	2,177	63	-	-	-
Permanent crops	118,000	1,171	112	951	66	43	-	-	-
Coffee	2,153,104	288,812	28,390	171,277	66,214	22,932	-	-	-
Chat	1,422,399	75,000	6,553	44,179	18,700	5,568	-	-	-
Fruit crops	688,384	47,542	2,925	29,583	13,169	1,865	-	-	-
Gesho	933,486	14,241	1,809	8,984	3,091	357	-	-	-
Sugar cane	16,058	278	75	204	-	-	-	-	-
Other permanent	305,723	8,180	203	4,319	2,922	736	-	-	-

Table 5.9 Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.) .
Gambela Region

Crop	No.of Holders	Holding size in hectare							
		Total	Under	0.10 –	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over 10
Cereals	29,966	8,354	139	2,909	1,766	1,449	1,441	626	25
Teff	35	3	-	-	1	-	3	-	-
Barley	57	23	-	-	-	23	-	-	-
Wheat	169	18	-	13	5	-	-	-	-
Maize	19,863	4,831	87	2,197	1,113	744	538	153	-
Sorghum	11,706	3,254	53	697	625	624	795	451	9
Finger millet	16	*	-	*	-	-	-	-	-
Oats / ‘Aja’	-	-	-	-	-	-	-	-	-
Rice	359	223	-	2	22	58	104	21	15
Pulses	822	44	1	1	1	28	1	-	12
Horse beans	294	14	-	-	-	14	*	-	-
Field peas	-	-	-	-	-	-	-	-	-
Haricot beans	176	7	*	*	-	6	-	-	-
Haricot beans	349	11	*	1	1	8	1	-	-
Chickpeas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Grass peas/vetch	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	16	*	-	-	-	-	*	-	-
Mung	-	-	-	-	-	-	-	-	-
Gibto	3	12	-	-	-	-	-	-	12
Oil seeds	-	-	-	-	-	-	-	-	-
Neug	816	167	1	6	24	26	110	-	-
Linseed	18	1	-	-	1	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-	-
Safflower	503	76	1	5	9	19	42	-	-
Sesame	58	*	-	-	*	-	-	-	-
Rapeseed	109	87	-	-	13	6	68	-	-
Vegetables	144	3	-	1	1	-	-	-	-
Lettuce	3,114	76	7	27	32	8	3	*	-
Head cabbage	-	-	-	-	-	-	-	-	-
Ethiopian	57	*	-	-	-	*	-	-	-
Tomatoes	2,172	47	7	10	26	1	2	*	-
Green peppers	286	20	*	16	4	-	-	-	-
Red peppers	422	2	-	*	1	*	*	*	-
Swiss chard	436	8	*	1	*	6	*	-	-
Root crops	-	-	-	-	-	-	-	-	-
Beetroot	7,681	225	15	87	66	29	25	3	*
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	18	2	-	-	2	-	-	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-	-	-
Sweet potatoes	5,973	130	11	43	48	13	14	1	-
Other	3,151	93	4	44	15	16	11	2	*
Permanent crops	6,634	221	8	81	53	47	32	1	-
Coffee	26,378	14,499	126	1,095	2,138	3,592	5,139	2,410	-
Chat	17,327	12,736	54	700	1,799	3,167	4,803	2,212	-
Fruit crops	1,342	323	-	8	16	76	85	138	-
Gesho	23,093	700	34	242	150	110	151	13	-
Sugar cane	2,888	35	*	2	2	8	11	10	-
Other permanent	6,857	108	10	26	17	14	16	25	-

Table 5.10 Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.) .

Harari Region

Crop	No.of Holders	Holding size in hectare							
		Total	Under	0.10 –	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over
Cereals	46,255	9,647	109	2,578	3,358	3,237	365	-	-
Teff	-	-	-	-	-	-	-	-	-
Barley	120	8	-	8	-	-	-	-	-
Wheat	239	18	-	-	18	-	-	-	-
Maize	28,984	1,315	53	591	357	273	42	-	-
Sorghum	39,286	8,305	56	1,978	2,983	2,964	323	-	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	1,936	31	*	8	18	3	2	-	-
Horse beans	411	5	*	2	-	3	-	-	-
Field peas	594	9	-	3	7	-	-	-	-
Haricot beans	71	2	-	2	-	-	-	-	-
Haricot beans	782	13	-	2	12	-	-	-	-
Chickpeas	78	2	-	-	-	-	2	-	-
Lentils	-	-	-	-	-	-	-	-	-
Grass	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil seeds	-	-	-	-	-	-	-	-	-
Neug	13,531	1,808	7	323	647	805	25	-	-
Linseed	-	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-	-
Safflower	13,454	1,794	7	323	641	797	25	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	428	14	-	-	6	8	-	-	-
Vegetables	-	-	-	-	-	-	-	-	-
Lettuce	538	14	-	4	4	6	-	-	-
Head cabbage	88	5	-	-	-	5	-	-	-
Ethiopian	37	*	-	*	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-	-
Green peppers	78	3	-	3	-	-	-	-	-
Red peppers	288	5	-	*	4	*	-	-	-
Swiss chard	85	1	-	1	-	-	-	-	-
Root crops	86	*	-	-	-	*	-	-	-
Beetroot	5,568	80	3	45	27	6	*	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	280	1	-	1	-	-	*	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other	5,288	79	3	43	27	6	-	-	-
Permanent	6,515	50	5	20	15	10	1	-	-
Coffee	47,931	8,694	179	3,196	3,386	1,724	208	-	-
Chat	5,063	69	1	28	25	10	5	-	-
Fruit crops	44,900	7,718	168	2,985	3,061	1,329	174	-	-
Gesho	28,103	781	9	174	294	276	29	-	-
Sugar cane	-	-	-	-	-	-	-	-	-
Other	507	105	-	4	1	100	-	-	-

Table 5.11 Estimate of Area by Crop and Holding size, 2020/21 (2013 E.C.) .
Dire Dawa

Crop	No.of Holders	Holding size in hectare							
		Total	Under	0.10 –	0.51 – 1	1.01 – 2	2.01 – 5	5.01 – 10	Over
Cereals	31,809	11,534	102	3,452	4,378	2,780	823	-	-
Teff	-	-	-	-	-	-	-	-	-
Barley	614	23	-	18	4	-	-	-	-
Wheat	393	19	-	19	-	-	-	-	-
Maize	7,001	251	8	131	80	26	6	-	-
Sorghum	31,226	11,242	95	3,284	4,293	2,754	816	-	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats / ‘Aja’	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	2,924	167	1	64	90	13	-	-	-
Horse beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
Haricot beans	2,034	137	-	46	78	13	-	-	-
Haricot beans	891	30	1	18	12	-	-	-	-
Chickpeas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Grass	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil seeds	-	-	-	-	-	-	-	-	-
Neug	1,969	180	1	36	125	19	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-	-
Safflower	1,750	180	1	36	124	19	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	219	1	-	-	1	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-	-
Lettuce	1,157	21	2	12	8	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Ethiopian	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-	-
Green peppers	517	14	-	7	7	-	-	-	-
Red peppers	640	7	2	4	1	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-	-
Beetroot	6,207	179	3	67	47	60	2	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	1,227	13	1	9	2	1	-	-	-
Yam	228	7	-	7	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other	5,279	160	1	51	46	60	2	-	-
Permanent	133	2	-	2	-	*	-	-	-
Coffee	19,143	1,513	70	700	513	220	10	-	-
Chat	6,021	181	21	92	62	7	-	-	-
Fruit crops	12,834	1,094	29	475	378	202	10	-	-
Gesho	10,684	198	20	100	68	10	-	-	-
Sugar cane	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-

Table 6: Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .

Ethiopia

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock holding.		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	1,007,786	43,937	1,344,299	28,818	1,892,885	100,650	4,244,970	173,406
Land owned	964,864	42,230	1,269,418	27,590	1,865,732	97,955	4,100,014	167,775
Land rented	34,540	466	43,576	493	34,438	725	112,554	1,684
Other tenure	67,245	1,241	36,895	736	83,458	1,970	187,598	3,947
0.10 – 0.50								
All tenure	1,086,787	270,527	83,052	16,495	6,320,724	1,788,525	7,490,563	2,075,548
Land owned	1,043,803	236,898	81,540	15,923	6,279,255	1,677,606	7,404,598	1,930,428
Land rented	81,430	11,120	1,555	263	239,968	31,272	322,953	42,656
Other tenure	132,453	22,508	2,101	309	691,996	79,647	826,551	102,464
0.51 – 1								
All tenure	376,284	264,242	14,478	10,149	4,512,028	3,267,481	4,902,790	3,541,872
Land owned	356,180	213,931	14,478	9,708	4,486,917	2,859,011	4,857,574	3,082,650
Land rented	52,886	19,066	1,693	440	441,592	122,047	496,171	141,553
Other tenure	86,571	31,245	26	1	965,270	286,423	1,051,867	317,669
1.01 – 2								
All tenure	211,145	282,236	6,592	8,779	4,104,034	5,768,218	4,321,771	6,059,232
Land owned	204,829	204,003	6,592	8,770	4,089,998	4,784,085	4,301,419	4,996,858
Land rented	50,868	33,945	-	-	652,620	322,669	703,487	356,614
Other tenure	66,601	44,288	9	9	1,234,180	661,463	1,300,789	705,760
2.01 – 5								
All tenure	50,916	137,199	3,870	11,688	1,985,259	5,610,805	2,040,046	5,759,692
Land owned	46,909	84,052	3,870	10,659	1,973,639	4,407,096	2,024,418	4,501,806
Land rented	14,785	21,984	-	-	487,288	460,979	502,074	482,963
Other tenure	20,943	31,163	539	1,029	713,230	742,730	734,713	774,922
5.01 – 10								
All tenure	7,255	47,046	212	1,330	159,578	1,006,936	167,046	1,055,311
Land owned	6,547	34,852	212	1,330	158,834	762,099	165,594	798,280
Land rented	2,650	8,361	-	-	58,675	153,311	61,325	161,672
Other tenure	1,952	3,833	-	-	46,881	91,525	48,833	95,358
Over 10								
All tenure	1,410	52,450	258	3,249	23,877	509,076	25,545	564,775
Land owned	1,410	21,117	258	3,249	23,877	462,459	25,545	486,824
Land rented	583	31,333	-	-	5,368	18,396	5,951	49,729
Other tenure	-	-	-	-	6,490	28,221	6,490	28,221
All holding								
All tenure	2,741,584	1,097,636	1,452,761	80,508	18,998,386	18,051,691	23,192,730	19,229,835
Land owned	2,624,541	837,083	1,376,368	77,228	18,878,253	15,050,312	22,879,161	15,964,623
Land rented	237,742	126,274	46,825	1,196	1,919,949	1,109,401	2,204,515	1,236,872
Other tenure	375,765	134,279	39,570	2,084	3,741,505	1,891,978	4,156,841	2,028,341

Table 6.1 Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .

Tigray Region

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	48,834	1,547	65,384	1,179	69,429	3,236	183,647	5,963
Land owned	39,739	1,353	43,385	840	64,562	2,915	147,685	5,108
Land rented	13,161	135	14,920	163	9,494	209	37,575	507
Other tenure	3,991	59	7,653	176	4,863	112	16,507	347
0.10 – 0.50								
All tenure	67,859	18,555	2,352	352	362,991	110,255	433,202	129,162
Land owned	64,664	16,461	1,975	259	358,375	99,261	425,014	115,981
Land rented	11,064	1,281	145	31	35,131	4,252	46,340	5,564
Other tenure	7,773	814	232	62	60,842	6,741	68,847	7,617
0.51 – 1								
All tenure	25,452	18,497	-	-	331,648	237,656	357,100	256,154
Land owned	24,688	16,668	-	-	325,669	204,318	350,357	220,986
Land rented	4,548	1,383	-	-	62,887	18,784	67,434	20,167
Other tenure	4,241	446	-	-	66,033	14,555	70,274	15,000
1.01 – 2								
All tenure	14,692	19,423	-	-	255,980	355,383	270,672	374,807
Land owned	14,116	14,640	-	-	252,039	266,461	266,155	281,101
Land rented	4,058	3,701	-	-	71,873	49,715	75,931	53,416
Other tenure	1,942	1,082	-	-	65,066	39,208	67,008	40,290
2.01 – 5								
All tenure	3,950	10,388	-	-	83,616	230,952	87,566	241,340
Land owned	3,289	7,892	-	-	81,638	171,111	84,928	179,003
Land rented	1,324	1,948	-	-	32,432	39,031	33,756	40,979
Other tenure	1,534	548	-	-	22,968	20,810	24,502	21,358
5.01 – 10								
All tenure	380	2,065	-	-	2,913	18,931	3,293	20,996
Land owned	380	1,746	-	-	2,913	12,239	3,293	13,985
Land rented	127	319	-	-	1,371	4,990	1,498	5,309
Other tenure	-	-	-	-	847	1,702	847	1,702
Over 10								
All tenure	-	-	-	-	-	-	-	-
Land owned	-	-	-	-	-	-	-	-
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
All holding								
All tenure	161,167	70,477	67,736	1,532	1,106,577	956,413	1,335,480	1,028,421
Land owned	146,877	58,760	45,360	1,099	1,085,197	756,305	1,277,433	816,164
Land rented	34,282	8,768	15,065	194	213,188	116,981	262,534	125,943
Other tenure	19,480	2,949	7,885	238	220,619	83,127	247,984	86,314

REMARK: Due to the condition in the Region we didn't cover the 2013 EC sample survey but we used the 2012 EC result as proxy

Table 6.2 Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .

Afar Region

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	130	6	75,325	2,381	1,237	51	76,692	2,439
Land owned	85	6	74,239	2,358	1,237	47	75,562	2,410
Land rented	-	-	173	7	20	1	193	7
Other tenure	45	1	913	16	75	4	1,032	21
0.10 – 0.50								
All tenure	129	22	4,735	893	2,523	652	7,387	1,567
Land owned	129	22	4,735	893	2,523	624	7,387	1,538
Land rented	-	-	-	-	119	28	119	28
Other tenure	-	-	26	*	-	-	26	*
0.51 – 1								
All tenure	118	64	880	616	3,323	2,305	4,320	2,985
Land owned	118	64	880	615	3,323	1,933	4,320	2,612
Land rented	-	-	-	-	111	72	111	72
Other tenure	-	-	26	1	449	300	475	301
1.01 – 2								
All tenure	326	421	491	562	2,147	2,855	2,964	3,838
Land owned	326	350	491	553	2,147	2,207	2,964	3,110
Land rented	75	71	-	-	172	171	247	242
Other tenure	-	-	9	9	345	477	354	486
2.01 – 5								
All tenure	42	179	26	54	930	2,422	999	2,655
Land owned	42	179	26	54	930	2,144	999	2,377
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	171	278	171	278
5.01 – 10								
All tenure	-	-	-	-	306	1,965	306	1,965
Land owned	-	-	-	-	306	1,965	306	1,965
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
Over 10								
All tenure	-	-	-	-	-	-	-	-
Land owned	-	-	-	-	-	-	-	-
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
All holding								
All tenure	744	692	81,457	4,506	10,467	10,251	92,668	15,449
Land owned	700	620	80,371	4,473	10,467	8,919	91,538	14,012
Land rented	75	71	173	7	423	272	671	350
Other tenure	45	1	974	26	1,040	1,059	2,058	1,086

Table 6.3 Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .

Amhara Region

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock holding.		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	161,117	6,684	112,885	1,856	208,697	9,605	482,698	18,145
Land owned	154,900	6,195	92,146	1,619	200,411	8,874	447,458	16,688
Land rented	6,727	141	15,604	181	6,846	188	29,177	511
Other tenure	14,152	348	6,692	56	17,912	542	38,756	946
0.10 – 0.50								
All tenure	224,326	58,356	7,062	1,480	845,660	260,252	1,077,048	320,089
Land owned	209,550	48,020	7,062	1,347	836,019	227,761	1,052,631	277,128
Land rented	28,449	3,354	905	133	66,931	9,415	96,285	12,902
Other tenure	38,539	6,983	-	-	169,231	23,076	207,770	30,059
0.51 – 1								
All tenure	111,627	78,781	2,520	1,654	1,136,965	851,257	1,251,112	931,692
Land owned	101,550	58,329	2,520	1,642	1,132,180	682,299	1,236,250	742,269
Land rented	15,879	6,917	631	13	144,336	35,900	160,847	42,829
Other tenure	34,828	13,536	-	-	419,573	133,058	454,401	146,594
1.01 – 2								
All tenure	59,964	80,553	894	1,439	1,345,862	1,916,547	1,406,720	1,998,539
Land owned	57,947	52,226	894	1,439	1,342,394	1,450,152	1,401,234	1,503,817
Land rented	18,537	13,532	-	-	286,433	119,568	304,969	133,101
Other tenure	28,221	14,796	-	-	630,040	346,826	658,261	361,622
2.01 – 5								
All tenure	15,963	43,611	-	-	620,510	1,730,115	636,473	1,773,727
Land owned	14,368	18,791	-	-	616,221	1,187,858	630,589	1,206,649
Land rented	7,556	14,820	-	-	206,796	200,018	214,352	214,838
Other tenure	8,318	10,001	-	-	341,217	342,239	349,535	352,239
5.01 – 10								
All tenure	1,552	9,508	-	-	52,258	328,806	53,810	338,314
Land owned	1,377	6,175	-	-	51,622	203,406	52,999	209,581
Land rented	726	3,131	-	-	29,944	94,991	30,670	98,122
Other tenure	520	201	-	-	17,109	30,410	17,629	30,611
Over 10								
All tenure	583	43,728	-	-	6,286	90,761	6,870	134,489
Land owned	583	12,395	-	-	6,286	65,964	6,870	78,360
Land rented	583	31,333	-	-	2,621	7,850	3,204	39,183
Other tenure	-	-	-	-	2,858	16,947	2,858	16,947
All holding								
All tenure	575,133	321,223	123,360	6,430	4,216,239	5,187,343	4,914,731	5,514,995
Land owned	540,275	202,130	102,621	6,047	4,185,134	3,826,315	4,828,030	4,034,492
Land rented	78,457	73,228	17,140	327	743,905	467,931	839,503	541,486
Other tenure	124,578	45,864	6,692	56	1,597,940	893,097	1,729,210	939,017

Table 6.4 Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .
Oromia Region

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock holding.		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	201,924	9,325	146,268	3,122	420,501	21,040	768,694	33,486
Land owned	190,977	8,932	132,787	2,825	414,685	20,249	738,449	32,006
Land rented	8,545	106	9,435	117	10,834	182	28,815	406
Other tenure	16,214	286	6,631	180	15,989	609	38,835	1,075
0.10 – 0.50								
All tenure	407,282	109,344	20,682	4,528	1,821,015	549,480	2,248,979	663,353
Land owned	386,227	92,951	20,440	4,322	1,801,626	508,115	2,208,293	605,388
Land rented	35,218	5,507	506	99	83,802	10,983	119,526	16,590
Other tenure	63,420	10,886	951	107	216,956	30,382	281,327	41,375
0.51 – 1								
All tenure	190,277	133,400	6,921	4,928	1,769,316	1,291,279	1,966,513	1,429,606
Land owned	182,400	109,371	6,921	4,500	1,759,381	1,134,857	1,948,703	1,248,728
Land rented	26,635	8,457	1,061	428	185,093	55,029	212,789	63,913
Other tenure	43,165	15,572	-	-	331,490	101,393	374,656	116,965
1.01 – 2								
All tenure	116,759	154,777	5,104	6,672	1,862,833	2,626,057	1,984,695	2,787,506
Land owned	113,610	117,729	5,104	6,672	1,857,779	2,257,333	1,976,494	2,381,734
Land rented	23,314	12,562	-	-	252,988	129,629	276,302	142,190
Other tenure	32,195	24,486	-	-	456,298	239,095	488,493	263,581
2.01 – 5								
All tenure	26,692	72,318	3,844	11,634	1,094,416	3,132,421	1,124,951	3,216,373
Land owned	24,940	49,083	3,844	10,605	1,091,609	2,605,290	1,120,393	2,664,978
Land rented	5,009	4,292	-	-	219,098	189,523	224,106	193,815
Other tenure	9,249	18,942	539	1,029	313,143	337,608	322,932	357,580
5.01 – 10								
All tenure	4,621	30,723	212	1,330	94,710	597,231	99,543	629,284
Land owned	4,088	23,947	212	1,330	94,710	489,652	99,010	514,928
Land rented	1,502	3,144	-	-	25,619	50,165	27,121	53,310
Other tenure	1,432	3,632	-	-	28,471	57,414	29,903	61,046
Over 10								
All tenure	826	8,722	258	3,249	14,364	250,572	15,448	262,542
Land owned	826	8,722	258	3,249	14,364	238,690	15,448	250,660
Land rented	-	-	-	-	2,118	8,333	2,118	8,333
Other tenure	-	-	-	-	2,731	3,548	2,731	3,548
All holding								
All tenure	948,380	518,608	183,290	35,463	7,077,153	8,468,080	8,208,824	9,022,151
Land owned	903,069	410,735	169,567	33,503	7,034,155	7,254,186	8,106,790	7,698,424
Land rented	100,223	34,068	11,002	644	779,551	443,845	890,776	478,557
Other tenure	165,676	73,805	8,121	1,316	1,365,079	770,049	1,538,877	845,170

**Table 6.5 Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .
Somali Region**

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	845	26	888,307	19,389	24,329	1,028	913,481	20,442
Land owned	845	26	876,495	19,123	24,329	992	901,668	20,141
Land rented	-	-	1,229	2	-	-	1,229	2
Other tenure	-	-	11,039	263	1,414	36	12,453	300
0.10 – 0.50								
All tenure	5,639	1,461	41,772	7,796	58,917	16,118	106,328	25,375
Land owned	5,639	1,415	40,880	7,656	58,917	16,113	105,436	25,185
Land rented	-	-	-	-	-	-	-	-
Other tenure	102	46	892	140	150	4	1,144	190
0.51 – 1								
All tenure	721	510	2,348	1,792	28,888	21,665	31,958	23,966
Land owned	721	510	2,348	1,792	28,888	21,565	31,958	23,867
Land rented	-	-	-	-	96	7	96	7
Other tenure	-	-	-	-	256	92	256	92
1.01 – 2								
All tenure	98	103	-	-	26,656	37,710	26,755	37,812
Land owned	98	103	-	-	26,656	37,702	26,755	37,805
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	115	7	115	7
2.01 – 5								
All tenure	-	-	-	-	11,089	29,996	11,089	29,996
Land owned	-	-	-	-	11,089	29,996	11,089	29,996
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
5.01 – 10								
All tenure	-	-	-	-	729	7,129	729	7,129
Land owned	-	-	-	-	729	7,129	729	7,129
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
Over 10								
All tenure	-	-	-	-	72	1,024	72	1,024
Land owned	-	-	-	-	72	1,024	72	1,024
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
All holding								
All tenure	7,303	2,099	932,427	28,976	150,681	114,669	1,090,411	145,745
Land owned	7,303	2,053	919,723	28,571	150,681	114,522	1,077,707	145,146
Land rented	-	-	1,229	2	96	7	1,326	9
Other tenure	102	46	11,931	403	1,934	140	13,968	589

**Table 6.6 Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .
Benishangul – Gumuz Region**

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	13,463	510	1,251	27	15,899	692	30,613	1,229
Land owned	12,790	464	537	8	15,899	679	29,227	1,151
Land rented	1,263	45	307	1	382	4	1,952	50
Other tenure	425	2	406	18	1,830	8	2,661	29
0.10 – 0.50								
All tenure	15,155	3,888	-	-	44,670	13,404	59,825	17,292
Land owned	14,783	3,338	-	-	44,577	11,295	59,360	14,633
Land rented	1,753	417	-	-	7,360	1,934	9,113	2,351
Other tenure	757	133	-	-	3,820	176	4,578	309
0.51 – 1								
All tenure	4,803	3,493	-	-	35,087	24,714	39,890	28,207
Land owned	4,099	1,899	-	-	34,364	19,360	38,463	21,259
Land rented	2,100	1,183	-	-	7,009	3,975	9,110	5,157
Other tenure	1,204	411	-	-	5,387	1,379	6,591	1,790
1.01 – 2								
All tenure	5,580	7,971	103	106	42,440	61,245	48,123	69,322
Land owned	5,185	3,308	103	106	41,562	44,583	46,851	47,997
Land rented	3,362	3,493	-	-	12,995	11,092	16,357	14,585
Other tenure	880	1,170	-	-	7,607	5,569	8,487	6,740
2.01 – 5								
All tenure	2,257	5,371	-	-	35,345	102,739	37,602	108,110
Land owned	2,257	2,893	-	-	34,606	65,988	36,863	68,882
Land rented	826	862	-	-	13,729	22,461	14,555	23,323
Other tenure	1,220	1,615	-	-	10,224	14,290	11,444	15,905
5.01 – 10								
All tenure	512	3,366	-	-	3,689	22,770	4,200	26,136
Land owned	512	1,600	-	-	3,581	18,059	4,093	19,659
Land rented	295	1,766	-	-	732	2,711	1,027	4,477
Other tenure	-	-	-	-	454	2,000	454	2,000
Over 10								
All tenure	-	-	-	-	2,736	40,798	2,736	40,798
Land owned	-	-	-	-	2,736	30,859	2,736	30,859
Land rented	-	-	-	-	630	2,213	630	2,213
Other tenure	-	-	-	-	901	7,726	901	7,726
All holding								
All tenure	41,770	24,599	1,354	133	179,865	266,362	222,989	291,094
Land owned	39,627	13,502	641	114	177,326	190,824	217,593	204,440
Land rented	9,599	7,765	307	1	42,837	44,390	52,743	52,156
Other tenure	4,486	3,332	406	18	30,222	31,148	35,114	34,498

Table 6.7 Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .
S.N.N.P. Region

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock holding.		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	349,004	13,668	42,915	594	674,574	36,257	1,066,494	50,519
Land owned	333,988	13,175	38,885	566	666,620	35,538	1,039,493	49,278
Land rented	4,435	35	1,351	9	6,652	133	12,438	177
Other tenure	27,502	459	3,095	19	31,553	586	62,149	1,063
0.10 – 0.50								
All tenure	215,643	50,287	5,751	1,267	2,055,551	563,931	2,276,945	615,484
Land owned	212,342	46,930	5,751	1,267	2,048,624	542,172	2,266,717	590,369
Land rented	4,828	545	-	-	43,641	4,583	48,469	5,128
Other tenure	18,226	2,812	-	-	186,914	17,176	205,140	19,988
0.51 – 1								
All tenure	36,229	24,844	1,641	1,053	1,011,488	707,741	1,049,357	733,637
Land owned	35,626	22,546	1,641	1,053	1,007,816	665,002	1,045,083	688,600
Land rented	3,500	1,092	-	-	39,429	8,188	42,929	9,280
Other tenure	2,977	1,206	-	-	134,249	34,551	137,226	35,758
1.01 – 2								
All tenure	12,510	17,398	-	-	518,183	704,053	530,693	721,450
Land owned	12,331	14,120	-	-	517,487	661,772	529,818	675,891
Land rented	1,458	586	-	-	27,908	12,337	29,365	12,923
Other tenure	3,131	2,692	-	-	73,621	29,944	76,751	32,636
2.01 – 5								
All tenure	1,308	3,408	-	-	136,740	374,940	138,048	378,349
Land owned	1,308	3,340	-	-	134,932	337,625	136,239	340,965
Land rented	71	62	-	-	15,234	9,947	15,305	10,009
Other tenure	494	6	-	-	25,145	27,369	25,640	27,375
5.01 – 10								
All tenure	-	-	-	-	4,715	28,425	4,715	28,425
Land owned	-	-	-	-	4,715	27,970	4,715	27,970
Land rented	-	-	-	-	1,009	454	1,009	454
Other tenure	-	-	-	-	-	-	-	-
Over 10								
All tenure	-	-	-	-	416	125,885	416	125,885
Land owned	-	-	-	-	416	125,885	416	125,885
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
All holding								
All tenure	614,694	109,605	50,307	2,913	4,401,667	2,541,232	5,066,669	2,653,750
Land owned	595,595	100,112	46,277	2,885	4,380,610	2,395,963	5,022,482	2,498,959
Land rented	14,291	2,318	1,351	9	133,873	35,643	149,516	37,970
Other tenure	52,330	7,175	3,095	19	451,481	109,626	506,906	116,820

Table 6.8 Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .

Sidama Region

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock holding		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	225,824	11,857	-	-	466,352	28,070	692,176	39,927
Land owned	225,824	11,812	-	-	466,352	28,027	692,176	39,839
Land rented	-	-	-	-	-	-	-	-
Other tenure	4,169	45	-	-	8,664	43	12,833	88
0.10 – 0.50								
All tenure	141,371	26,349	-	-	1,075,443	259,890	1,216,814	286,239
Land owned	141,371	25,654	-	-	1,075,443	258,125	1,216,814	283,779
Land rented	-	-	-	-	2,433	16	2,433	16
Other tenure	2,381	695	-	-	50,342	1,749	52,723	2,445
0.51 – 1								
All tenure	4,555	2,947	-	-	171,524	113,915	176,079	116,861
Land owned	4,555	2,947	-	-	171,524	113,053	176,079	116,000
Land rented	-	-	-	-	2,406	33	2,406	33
Other tenure	-	-	-	-	5,116	829	5,116	829
1.01 – 2								
All tenure	-	-	-	-	39,085	49,672	39,085	49,672
Land owned	-	-	-	-	39,085	49,672	39,085	49,672
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
2.01 – 5								
All tenure	-	-	-	-	-	-	-	-
Land owned	-	-	-	-	-	-	-	-
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
5.01 – 10								
All tenure	-	-	-	-	-	-	-	-
Land owned	-	-	-	-	-	-	-	-
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
Over 10								
All tenure	-	-	-	-	-	-	-	-
Land owned	-	-	-	-	-	-	-	-
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
All holding								
All tenure	371,749	41,152	-	-	1,752,405	451,547	2,124,154	492,699
Land owned	371,749	40,412	-	-	1,752,405	448,877	2,124,154	489,289
Land rented	-	-	-	-	4,839	49	4,839	49
Other tenure	6,550	740	-	-	64,123	2,621	70,673	3,361

Table 6.9 Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .

Gambela Region

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	2,924	143	1,258	44	4,146	219	8,328	406
Land owned	2,484	112	1,149	44	3,916	192	7,549	348
Land rented	115	1	-	-	120	5	235	7
Other tenure	515	30	109	1	685	22	1,309	52
0.10 – 0.50								
All tenure	4,435	1,149	669	172	15,963	4,137	21,067	5,458
Land owned	4,207	1,060	669	172	15,159	3,858	20,035	5,090
Land rented	-	-	-	-	313	53	313	53
Other tenure	536	89	-	-	1,259	226	1,795	315
0.51 – 1								
All tenure	1,587	1,128	102	63	5,264	3,765	6,953	4,956
Land owned	1,506	1,022	102	63	5,246	3,653	6,854	4,738
Land rented	147	32	-	-	139	33	285	64
Other tenure	156	74	-	-	306	79	462	154
1.01 – 2								
All tenure	986	1,292	-	-	3,414	4,787	4,400	6,079
Land owned	986	1,231	-	-	3,414	4,609	4,400	5,840
Land rented	64	*	-	-	66	51	130	51
Other tenure	231	61	-	-	407	127	638	188
2.01 – 5								
All tenure	705	1,923	-	-	1,892	5,307	2,597	7,230
Land owned	705	1,873	-	-	1,892	5,171	2,597	7,044
Land rented	-	-	-	-	-	-	-	-
Other tenure	128	50	-	-	362	136	490	186
5.01 – 10								
All tenure	191	1,384	-	-	257	1,679	448	3,062
Land owned	191	1,384	-	-	257	1,679	448	3,062
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
Over 10								
All tenure	-	-	-	-	3	36	3	36
Land owned	-	-	-	-	3	36	3	36
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
All holding								
All tenure	10,827	7,019	2,029	279	30,939	19,929	43,796	27,228
Land owned	10,078	6,681	1,920	279	29,887	19,198	41,885	26,158
Land rented	325	33	-	-	637	142	962	175
Other tenure	1,566	305	109	1	3,019	590	4,694	895

Table 6.10 Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .

Harari Region

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	2,995	133	400	5	4,584	262	7,979	399
Land owned	2,608	119	400	5	4,584	256	7,592	380
Land rented	191	2	-	-	91	2	282	4
Other tenure	233	11	-	-	199	4	432	15
0.10 – 0.50								
All tenure	4,320	956	-	-	21,174	5,744	25,495	6,700
Land owned	4,262	910	-	-	21,174	5,653	25,436	6,563
Land rented	117	16	-	-	238	7	355	23
Other tenure	518	30	-	-	1,417	84	1,936	114
0.51 – 1								
All tenure	918	579	-	-	10,142	7,272	11,060	7,851
Land owned	918	575	-	-	10,142	7,216	11,060	7,791
Land rented	78	4	-	-	86	26	164	30
Other tenure	-	-	-	-	1,460	30	1,460	30
1.01 – 2								
All tenure	174	233	-	-	4,463	6,064	4,637	6,298
Land owned	174	233	-	-	4,463	5,812	4,637	6,045
Land rented	-	-	-	-	185	106	185	106
Other tenure	-	-	-	-	543	146	543	146
2.01 – 5								
All tenure	-	-	-	-	343	798	343	798
Land owned	-	-	-	-	343	798	343	798
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
5.01 – 10								
All tenure	-	-	-	-	-	-	-	-
Land owned	-	-	-	-	-	-	-	-
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
Over 10								
All tenure	-	-	-	-	-	-	-	-
Land owned	-	-	-	-	-	-	-	-
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
All holding								
All tenure	8,408	1,901	400	5	40,707	20,139	49,514	22,045
Land owned	7,962	1,838	400	5	40,707	19,735	49,069	21,577
Land rented	386	22	-	-	600	141	986	163
Other tenure	751	41	-	-	3,620	263	4,371	305

Table 6.11 Distribution of Holders and Area by Holding size, Tenure system and Holding Type, 2020/21 (2013 E.C.) .

Dire Dawa

Holding size (HA)	Holding type							
	Crop holding		Livestock holding		Crop & Livestock		All holding	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Under 0.10								
All tenure	726	38	10,306	222	3,137	191	14,168	451
Land owned	624	37	9,393	204	3,137	186	13,153	426
Land rented	102	1	556	12	-	-	659	13
Other tenure	-	-	356	7	275	5	631	12
0.10 – 0.50								
All tenure	628	159	29	7	16,816	4,662	17,473	4,828
Land owned	628	138	29	7	16,816	4,630	17,473	4,775
Land rented	-	-	-	-	-	-	-	-
Other tenure	201	21	-	-	1,065	32	1,266	53
0.51 – 1								
All tenure	-	-	65	44	8,383	5,912	8,448	5,956
Land owned	-	-	65	44	8,383	5,755	8,448	5,799
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	950	157	950	157
1.01 – 2								
All tenure	56	64	-	-	2,970	3,846	3,026	3,910
Land owned	56	64	-	-	2,970	3,782	3,026	3,846
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	138	64	138	64
2.01 – 5								
All tenure	-	-	-	-	378	1,115	378	1,115
Land owned	-	-	-	-	378	1,115	378	1,115
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
5.01 – 10								
All tenure	-	-	-	-	-	-	-	-
Land owned	-	-	-	-	-	-	-	-
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
Over 10								
All tenure	-	-	-	-	-	-	-	-
Land owned	-	-	-	-	-	-	-	-
Land rented	-	-	-	-	-	-	-	-
Other tenure	-	-	-	-	-	-	-	-
All holding								
All tenure	1,409	260	10,400	273	31,684	15,726	43,494	16,259
Land owned	1,307	239	9,488	254	31,684	15,469	42,479	15,962
Land rented	102	1	556	12	-	-	659	13
Other tenure	201	21	356	7	2,428	258	2,985	285

Table 7: Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

Ethiopia

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	22,591,600	2,184,863	4,121,420	22,812,082
Number of Male Head Households	18,367,274	1,991,168	3,707,511	18,524,639
Number of Female Head Households	4,224,326	193,694	413,909	4,287,443
Number of Holders	22,879,161	2,204,515	4,156,841	23,192,730
Land Area in hectare	15,964,611	1,236,872	2,028,341	19,229,823
Number of Male Holders	18,691,614	2,025,550	3,775,406	18,939,341
Land area in Hectare	14,088,823	1,180,621	1,926,420	17,195,864
Average Area/male holder	0.75	0.58	0.51	0.91
Number of Female Holders	4,187,547	178,965	381,435	4,253,389
Land area in Hectare	1,875,787	56,251	101,921	2,033,959
Average Area/female holder	0.45	0.31	0.27	0.48
Number of Parcels	57,685,449	2,204,515	4,156,841	67,525,518
Average area/Parcel	0.28	0.56	0.49	0.28
Number of Parcels/Holders	2.52	1	1	2.91
Number of Fields	149,643,566	2,204,515	4,156,841	154,485,959
Average area/Fields	-	-	-	-
Number of Fields/Holders	654	100	100	666

Table 7.1 Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

Tigray Region

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	1,264,998	262,534	246,400	1,318,952
Number of Male Head Households	967,506	223,963	207,711	1,002,615
Number of Female Head Households	297,492	38,571	38,689	316,337
Number of Holders	1,277,433	262,534	247,984	1,335,480
Land Area in hectare	816,164	125,943	86,314	1,028,421
Number of Male Holders	975,181	225,000	210,354	1,014,886
Land area in Hectare	692,932	117,535	80,480	890,947
Average Area/male holder	0.71	0.52	0.38	0.88
Number of Female Holders	302,252	37,534	37,630	320,593
Land area in Hectare	123,232	8,408	5,834	137,474
Average Area/female holder	0.41	0.22	0.16	0.43
Number of Parcels	3,113,612	262,534	247,984	3,781,874
Average area/Parcel	0.26	0.48	0.35	0.27
Number of Parcels/Holders	2.44	1	1	2.83
Number of Fields	4,331,081	262,534	247,984	4,727,488
Average area/Fields	-	-	-	-
Number of Fields/Holders	339	100	100	354

REMARK: Due to the condition in the Region we didn't cover the 2013 EC sample survey but we used the 2012 EC result as proxy

Table 7.2 Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

Afar Region

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	91,538	671	2,058	92,668
Number of Male Head Households	67,996	569	1,725	68,876
Number of Female Head Households	23,542	102	334	23,792
Number of Holders	91,538	671	2,058	92,668
Land Area in hectare	14,012	350	1,086	15,449
Number of Male Holders	67,706	569	1,762	68,587
Land area in Hectare	11,975	243	1,058	13,276
Average Area/male holder	0.18	0.43	0.60	0.19
Number of Female Holders	23,832	102	296	24,081
Land area in Hectare	2,037	107	28	2,173
Average Area/female holder	0.09	1.05	0.09	0.09
Number of Parcels	102,398	671	2,058	105,336
Average area/Parcel	0.14	0.52	0.53	0.15
Number of Parcels/Holders	1.12	1	1	1.14
Number of Fields	7,359	671	2,058	7,663
Average area/Fields	-	-	-	-
Number of Fields/Holders	8	100	100	8

Table 7.3 Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

Amhara Region

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	4,758,279	831,863	1,718,683	4,812,749
Number of Male Head Households	3,912,019	762,134	1,593,172	3,945,056
Number of Female Head Households	846,260	69,730	125,510	867,694
Number of Holders	4,828,030	839,503	1,729,210	4,914,731
Land Area in hectare	4,034,492	541,486	939,017	5,514,995
Number of Male Holders	4,001,839	779,686	1,618,748	4,067,317
Land area in Hectare	3,668,428	520,824	907,505	5,096,757
Average Area/male holder	0.92	0.67	0.56	1.25
Number of Female Holders	826,192	59,817	110,462	847,414
Land area in Hectare	366,063	20,662	31,512	418,238
Average Area/female holder	0.44	0.35	0.29	0.49
Number of Parcels	18,381,793	839,503	1,729,210	23,201,201
Average area/Parcel	0.22	0.65	0.54	0.24
Number of Parcels/Holders	3.81	1	1	4.72
Number of Fields	21,582,473	839,503	1,729,210	23,450,508
Average area/Fields	-	-	-	-
Number of Fields/Holders	447	100	100	477

Table 7.4 Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

Oromia Region

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	7,945,546	879,115	1,519,637	7,997,253
Number of Male Head Households	6,729,726	812,513	1,351,432	6,772,228
Number of Female Head Households	1,215,820	66,602	168,204	1,225,025
Number of Holders	8,106,790	890,776	1,538,877	8,208,824
Land Area in hectare	7,698,424	478,557	845,170	9,022,151
Number of Male Holders	6,912,860	829,677	1,386,729	7,002,597
Land area in Hectare	6,826,881	454,853	790,917	8,072,652
Average Area/male holder	0.99	0.55	0.57	1.15
Number of Female Holders	1,193,930	61,099	152,148	1,206,227
Land area in Hectare	871,542	23,704	54,253	949,499
Average Area/female holder	0.73	0.39	0.36	0.79
Number of Parcels	22,257,645	890,776	1,538,877	25,788,537
Average area/Parcel	0.35	0.54	0.55	0.35
Number of Parcels/Holders	2.75	1	1	3.14
Number of Fields	53,023,182	890,776	1,538,877	54,667,392
Average area/Fields	-	-	-	-
Number of Fields/Holders	654	100	100	666

Table 7.5 Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

Somali Region

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	1,077,560	1,326	13,968	1,090,264
Number of Male Head Households	629,745	159	8,768	636,174
Number of Female Head Households	447,815	1,167	5,200	454,090
Number of Holders	1,077,707	1,326	13,968	1,090,411
Land Area in hectare	145,146	9	589	145,745
Number of Male Holders	631,406	159	9,129	638,195
Land area in Hectare	105,782	8	430	106,220
Average Area/male holder	0.17	0.05	0.05	0.17
Number of Female Holders	446,301	1,167	4,839	452,216
Land area in Hectare	39,364	2	159	39,525
Average Area/female holder	0.09	*	0.03	0.09
Number of Parcels	1,218,389	1,326	13,968	1,233,241
Average area/Parcel	0.12	0.01	0.04	0.12
Number of Parcels/Holders	1.13	1	1	1.13
Number of Fields	81,863	1,326	13,968	82,407
Average area/Fields	-	-	-	-
Number of Fields/Holders	8	100	100	8

Table 7.6 Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

Benishangul – Gumuz Region

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	216,052	52,436	34,043	220,156
Number of Male Head Households	176,418	48,871	29,086	178,996
Number of Female Head Households	39,634	3,565	4,957	41,161
Number of Holders	217,593	52,743	35,114	222,989
Land Area in hectare	204,440	52,156	34,498	291,094
Number of Male Holders	175,244	48,056	29,714	179,113
Land area in Hectare	184,728	50,817	33,122	268,667
Average Area/male holder	1.05	1.06	1.11	1.50
Number of Female Holders	42,350	4,687	5,400	43,876
Land area in Hectare	19,712	1,339	1,375	22,427
Average Area/female holder	0.47	0.29	0.25	0.51
Number of Parcels	531,384	52,743	35,114	685,319
Average area/Parcel	0.38	0.99	0.98	0.42
Number of Parcels/Holders	2.44	1	1	3.07
Number of Fields	1,018,521	52,743	35,114	1,083,131
Average area/Fields	-	-	-	-
Number of Fields/Holders	468	100	100	486

Table 7.7 Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

S.N.N.P. Region

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	4,993,745	149,472	503,908	5,032,823
Number of Male Head Households	3,963,348	135,971	434,037	3,997,434
Number of Female Head Households	1,030,397	13,501	69,871	1,035,389
Number of Holders	5,022,482	149,516	506,906	5,066,669
Land Area in hectare	2,498,947	37,970	116,820	2,653,738
Number of Male Holders	3,985,912	135,634	437,354	4,024,367
Land area in Hectare	2,107,234	35,976	108,194	2,251,404
Average Area/male holder	0.53	0.27	0.25	0.56
Number of Female Holders	1,036,570	13,882	69,552	1,042,301
Land area in Hectare	391,714	1,994	8,626	402,334
Average Area/female holder	0.38	0.14	0.12	0.39
Number of Parcels	8,854,992	149,516	506,906	9,461,052
Average area/Parcel	0.28	0.25	0.23	0.28
Number of Parcels/Holders	1.76	1	1	1.87
Number of Fields	56,006,390	149,516	506,906	56,801,385
Average area/Fields	-	-	-	-
Number of Fields/Holders	1,115	100	100	1,121

Table 7.8 Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

Sidama Region

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	2,110,907	4,839	70,673	2,110,907
Number of Male Head Households	1,812,964	4,839	70,673	1,812,964
Number of Female Head Households	297,943	-	-	297,943
Number of Holders	2,124,154	4,839	70,673	2,124,154
Land Area in hectare	489,289	49	3,361	492,699
Number of Male Holders	1,833,914	4,839	70,673	1,833,914
Land area in Hectare	434,680	49	3,361	438,090
Average Area/male holder	0.24	0.01	0.05	0.24
Number of Female Holders	290,240	-	-	290,240
Land area in Hectare	54,609	-	-	54,609
Average Area/female holder	0.19	-	-	0.19
Number of Parcels	2,905,200	4,839	70,673	2,935,391
Average area/Parcel	0.17	0.01	0.05	0.17
Number of Parcels/Holders	1.37	1	1	1.38
Number of Fields	13,031,404	4,839	70,673	13,095,699
Average area/Fields	-	-	-	-
Number of Fields/Holders	613	100	100	617

Table 7.9 Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

Gambela Region

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	41,427	962	4,694	43,302
Number of Male Head Households	31,706	799	4,105	33,376
Number of Female Head Households	9,721	164	589	9,926
Number of Holders	41,885	962	4,694	43,796
Land Area in hectare	26,158	175	895	27,228
Number of Male Holders	32,019	760	4,211	33,820
Land area in Hectare	23,050	153	806	24,009
Average Area/male holder	0.72	0.20	0.19	0.71
Number of Female Holders	9,866	202	483	9,975
Land area in Hectare	3,108	22	89	3,218
Average Area/female holder	0.32	0.11	0.18	0.32
Number of Parcels	85,617	962	4,694	92,584
Average area/Parcel	0.31	0.18	0.19	0.29
Number of Parcels/Holders	2.04	1	1	2.11
Number of Fields	139,210	962	4,694	141,088
Average area/Fields	-	-	-	-
Number of Fields/Holders	332	100	100	322

Table 7.10 Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

Harari Region

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	49,069	986	4,371	49,514
Number of Male Head Households	40,544	897	4,160	40,873
Number of Female Head Households	8,525	88	211	8,641
Number of Holders	49,069	986	4,371	49,514
Land Area in hectare	21,577	163	305	22,045
Number of Male Holders	40,701	781	4,178	41,030
Land area in Hectare	19,155	155	281	19,591
Average Area/male holder	0.47	0.20	0.07	0.48
Number of Female Holders	8,368	205	193	8,485
Land area in Hectare	2,422	9	23	2,454
Average Area/female holder	0.29	0.04	0.12	0.29
Number of Parcels	132,341	986	4,371	135,452
Average area/Parcel	0.16	0.17	0.07	0.16
Number of Parcels/Holders	2.70	1	1	2.74
Number of Fields	333,235	986	4,371	338,802
Average area/Fields	-	-	-	-
Number of Fields/Holders	679	100	100	684

Table 7.11 Distribution of Households, Holders, Land area and Parcels by Tenure system, 2020/21 (2013 E.C.) .

Dire Dawa

Items	Tenure system			
	Land owned	Land rented	Other tenure	All
Number of Households	42,479	659	2,985	43,494
Number of Male Head Households	35,303	454	2,641	36,048
Number of Female Head Households	7,176	205	344	7,446
Number of Holders	42,479	659	2,985	43,494
Land Area in hectare	15,962	13	285	16,259
Number of Male Holders	34,834	389	2,553	35,514
Land area in Hectare	13,978	9	264	14,251
Average Area/male holder	0.40	0.02	0.10	0.40
Number of Female Holders	7,645	270	432	7,980
Land area in Hectare	1,983	4	21	2,008
Average Area/female holder	0.26	0.01	0.05	0.25
Number of Parcels	102,079	659	2,985	105,530
Average area/Parcel	0.16	0.02	0.10	0.15
Number of Parcels/Holders	2.40	1	1	2.43
Number of Fields	88,847	659	2,985	90,396
Average area/Fields	-	-	-	-
Number of Fields/Holders	209	100	100	208

Table 8: Distribution of Holders and Area by Holding size and Sex of Holder, 2020/21 (2013 E.C.) .

Ethiopia

Holding size (HA)	Sex of holder					
	Male		Female		Both	
	Number	Area (HA)	Number	Area (HA)	Number	Area (HA)
Under 0.10	2,829,340	122,362	1,415,630	51,044	4,244,970	173,406
0.10 – 0.50	5,902,524	1,655,635	1,588,040	419,912	7,490,563	2,075,548
0.51 – 1	4,224,185	3,060,578	678,606	481,294	4,902,790	3,541,872
1.01 – 2	3,896,371	5,473,492	425,400	585,741	4,321,771	6,059,232
2.01 – 5	1,907,167	5,397,690	132,879	362,001	2,040,046	5,759,692
5.01 – 10	156,903	992,969	10,142	62,342	167,046	1,055,311
Over 10	22,852	493,149	2,692	71,625	25,545	564,775
All	18,939,341	17,195,876	4,253,389	2,033,959	23,192,730	19,229,835

Table 8.1 Distribution of Holders and Area by Holding size and Sex of Holder 2020/21 (2013 E.C.) .

Tigray Region

Holding size (HA)	Sex of holder					
	Male		Female		Both	
	Number	Area (HA)	Number	Area	Number	Area (HA)
Under 0.10	88,130	2,822	95,517	3,141	183,647	5,963
0.10 – 0.50	304,472	93,070	128,729	36,092	433,202	129,162
0.51 – 1	294,900	212,541	62,200	43,613	357,100	256,154
1.01 – 2	241,453	335,615	29,219	39,192	270,672	374,807
2.01 – 5	83,114	229,168	4,451	12,173	87,566	241,340
5.01 – 10	2,817	17,732	476	3,264	3,293	20,996
Over 10	-	-	-	-	-	-
All	1,014,886	890,947	320,593	137,474	1,335,480	1,028,421

REMARK: Due to the condition in the Region we didn't cover the 2013 EC sample survey but we used the 2012 EC result as proxy

Table 8.2 Distribution of Holders and Area by Holding size and Sex of Holder, 2020/21 (2013 E.C.) .

Afar Region

Distribution of Holding size (HA)	Sex of holder					
	Male		Female		Both	
	Number	Area (HA)	Number	Area (HA)	Number	Area (HA)
Under 0.10	55,507	1,805	21,185	634	76,692	2,439
0.10 – 0.50	5,828	1,269	1,559	298	7,387	1,567
0.51 – 1	3,511	2,440	810	546	4,320	2,985
1.01 – 2	2,462	3,196	502	642	2,964	3,838
2.01 – 5	972	2,601	26	54	999	2,655
5.01 – 10	306	1,965	-	-	306	1,965
Over 10	-	-	-	-	-	-
All	68,587	13,276	24,081	2,173	92,668	15,449

Table 8.3 Distribution of Holders and Area by Holding size and Sex of Holder, 2020/21 (2013 E.C.) .

Amhara Region

Distribution of Holding size (HA)	Sex of holder					
	Male		Female		Both	
	Number	Area (HA)	Number	Area	Number	Area (HA)
Under 0.10	212,753	8,722	269,945	9,423	482,698	18,145
0.10 – 0.50	771,030	240,871	306,018	79,218	1,077,048	320,089
0.51 – 1	1,105,642	827,528	145,470	104,164	1,251,112	931,692
1.01 – 2	1,309,685	1,862,888	97,035	135,651	1,406,720	1,998,539
2.01 – 5	610,314	1,700,610	26,159	73,117	636,473	1,773,727
5.01 – 10	51,024	321,650	2,786	16,664	53,810	338,314
Over 10	6,870	134,489	-	-	6,870	134,489
All	4,067,317	5,096,757	847,414	418,238	4,914,731	5,514,995

Table 8.4 Distribution of Holders and Area by Holding size and Sex of Holder, 2020/21 (2013 E.C.) .

Oromia Region

Distribution of Holding size (HA)	Sex of holder					
	Male		Female		Both	
	Number	Area (HA)	Number	Area	Number	Area (HA)
Under 0.10	541,811	24,235	226,883	9,251	768,694	33,486
0.10 – 0.50	1,824,627	543,575	424,352	119,778	2,248,979	663,353
0.51 – 1	1,722,758	1,253,961	243,755	175,645	1,966,513	1,429,606
1.01 – 2	1,766,934	2,482,388	217,762	305,118	1,984,695	2,787,506
2.01 – 5	1,040,959	2,989,441	83,992	226,932	1,124,951	3,216,373
5.01 – 10	92,666	586,897	6,877	42,387	99,543	629,284
Over 10	12,842	192,155	2,606	70,387	15,448	262,542
All	7,002,597	8,072,652	1,206,227	949,499	8,208,824	9,022,151

Table 8.5 Distribution of Holders and Area by Holding size and Sex of Holder, 2020/21 (2013 E.C.) .

Somali Region

Distribution of Holding size (HA)	Sex of holder					
	Male		Female		Both	
	Number	Area (HA)	Number	Area	Number	Area (HA)
Under 0.10	523,226	12,101	390,255	8,342	913,481	20,442
0.10 – 0.50	64,402	15,411	41,926	9,964	106,328	25,375
0.51 – 1	19,327	14,452	12,630	9,514	31,958	23,966
1.01 – 2	21,094	30,739	5,661	7,073	26,755	37,812
2.01 – 5	9,346	25,364	1,743	4,631	11,089	29,996
5.01 – 10	729	7,129	-	-	729	7,129
Over 10	72	1,024	-	-	72	1,024
All	638,195	106,220	452,216	39,525	1,090,411	145,745

Table 8.6 Distribution of Holders and Area by Holding size and Sex of Holder, 2020/21 (2013 E.C.) .

Benishangul – Gumuz Region

Distribution of	Sex of holder					
	Male		Female		Both	
Holding size (HA)	Number	Area (HA)	Number	Area (HA)	Number	Area (HA)
Under 0.10	16,361	652	14,252	577	30,613	1,229
0.10 – 0.50	44,423	13,250	15,401	4,043	59,825	17,292
0.51 – 1	31,850	22,696	8,040	5,511	39,890	28,207
1.01 – 2	44,308	64,357	3,815	4,965	48,123	69,322
2.01 – 5	35,321	102,017	2,281	6,093	37,602	108,110
5.01 – 10	4,200	26,136	-	-	4,200	26,136
Over 10	2,649	39,560	87	1,238	2,736	40,798
All	179,113	268,667	43,876	22,427	222,989	291,094

Table 8.7 Distribution of Holders and Area by Holding size and Sex of Holder, 2020/21 (2013 E.C.) .

S.N.N.P. Region

Distribution of	Sex of holder					
	Male		Female		Both	
Holding size (HA)	Number	Area (HA)	Number	Area	Number	Area (HA)
Under 0.10	793,036	37,446	273,458	13,073	1,066,494	50,519
0.10 – 0.50	1,773,683	480,759	503,262	134,725	2,276,945	615,484
0.51 – 1	866,092	606,732	183,265	126,905	1,049,357	733,637
1.01 – 2	462,416	632,335	68,277	89,115	530,693	721,450
2.01 – 5	124,008	339,833	14,040	38,516	138,048	378,349
5.01 – 10	4,715	28,425	-	-	4,715	28,425
Over 10	416	125,885	-	-	416	125,885
All	4,024,367	2,251,416	1,042,301	402,334	5,066,669	2,653,750

Table 8.8 Distribution of Holders and Area by Holding size and Sex of Holder, 2020/21 (2013 E.C.) .

Sidama Region

Distribution of	Sex of holder					
	Male		Female		Both	
Holding size (HA)	Number	Area (HA)	Number	Area (HA)	Number	Area (HA)
Under 0.10	577,391	33,641	114,785	6,286	692,176	39,927
0.10 – 0.50	1,062,428	253,665	154,387	32,575	1,216,814	286,239
0.51 – 1	157,212	103,891	18,867	12,970	176,079	116,861
1.01 – 2	36,883	46,893	2,202	2,779	39,085	49,672
2.01 – 5	-	-	-	-	-	-
5.01 – 10	-	-	-	-	-	-
Over 10	-	-	-	-	-	-
All	1,833,914	438,090	290,240	54,609	2,124,154	492,699

Table 8.9 Distribution of Holders and Area by Holding size and Sex of Holder, 2020/21 (2013 E.C.) .

Gambela Region

Distribution of	Sex of holder					
	Male		Female		Both	
Holding size (HA)	Number	Area (HA)	Number	Area (HA)	Number	Area (HA)
Under 0.10	5,483	276	2,845	130	8,328	406
0.10 – 0.50	15,539	4,044	5,528	1,414	21,067	5,458
0.51 – 1	5,907	4,249	1,047	707	6,953	4,956
1.01 – 2	4,033	5,623	367	456	4,400	6,079
2.01 – 5	2,411	6,745	186	485	2,597	7,230
5.01 – 10	445	3,035	3	27	448	3,062
Over 10	3	36	-	-	3	36
All	33,820	24,009	9,975	3,218	43,796	27,228

Table 8.10 Distribution of Holders and Area by Holding size and Sex of Holder, 2020/21 (2013 E.C.) .

Harari Region

Distribution of	Sex of holder					
	Male		Female		Both	
Holding size (HA)	Number	Area (HA)	Number	Area (HA)	Number	Area (HA)
Under 0.10	5,362	302	2,618	97	7,979	399
0.10 – 0.50	21,087	5,536	4,408	1,164	25,495	6,700
0.51 – 1	9,790	6,930	1,270	921	11,060	7,851
1.01 – 2	4,448	6,025	190	272	4,637	6,298
2.01 – 5	343	798	-	-	343	798
5.01 – 10	-	-	-	-	-	-
Over 10	-	-	-	-	-	-
All	41,030	19,591	8,485	2,454	49,514	22,045

Table 8.11 Distribution of Holders and Area by Holding size and Sex of Holder, 2020/21 (2013 E.C.) .

Dire Dawa

Distribution of	Sex of holder					
	Male		Female		Both	
Holding size (HA)	Number	Area (HA)	Number	Area (HA)	Number	Area (HA)
Under 0.10	10,281	360	3,888	90	14,168	451
0.10 – 0.50	15,003	4,186	2,470	642	17,473	4,828
0.51 – 1	7,197	5,158	1,251	798	8,448	5,956
1.01 – 2	2,655	3,431	371	478	3,026	3,910
2.01 – 5	378	1,115	-	-	378	1,115
5.01 – 10	-	-	-	-	-	-
Over 10	-	-	-	-	-	-
All	35,514	14,251	7,980	2,008	43,494	16,259

Table 9: Area of Land under Double cropping by Region, 2020/21 (2013 E.C.) .

REGION	Number of Holders	All Area in Hectare
Tigray	40,299	16,656
Afar	53	35
Amhara	299,145	109,684
Oromiya	349,216	105,694
Somali	4,709	1,524
Benishangul Gumuz	6,153	852
SNNP	85,931	7,426
Sidama	45,613	3,089
Gambela	1,294	242
Hareri	310	33
Dire Dawa Astedadar	1,251	99
ALL/National	833,974	245,335

Table 10: Newly Cultivated Land by Region, 2020/21 (2013 E.C.) .

REGION	Number of Holders	All Area in Hectare
Tigray	15,421	1,216
Afar	140	62
Amhara	35,827	7,930
Oromiya	34,863	4,989
Somali	8,105	648
Benishangul Gumuz	2,444	219
SNNP	32,261	2,947
Sidama	2,128	12
Gambela	33	2
Hareri	135	142
Dire Dawa Astedadar	80	2
ALL/National	131,437	18,171

APPENDIX I:
ESTIMATION PROCEDURES OF TOTALS, RATIOS AND SAMPLING ERRORS

Estimation Procedures of Totals, Ratios and Sampling Errors

The following formulas were used to estimate total area of land under specific crop, production and yield of specific crop in a stratum.

1. For Estimating Total Area Of Land Under Specific Crop:

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

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.

a_{hij} is the value of area for agricultural household j , in the i^{th} EA in the h^{th} stratum under a specific crop.

a_{hi} is the sample total area under specific crop for EA i in stratum h

\hat{A}_h estimate of total area under specific crop in stratum h

2. For Estimating Total Number of Holders and Households:

$$\hat{Y}_h = \sum_{i=1}^{n_h} W_{hi} y_{hi}$$

Where:

y_{hi} is the sample total number of holders/households of i^{th} EA in the h^{th} stratum.

\hat{Y}_h is estimate of total number of holders/households for the h^{th} stratum.

W_{hi} is as defined above.

3. For Estimating Ratios in Stratum h :

$$\hat{R}_h = \frac{\hat{Y}_h}{\hat{X}_h},$$

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

4. Sampling Variance of Estimates:

Sampling variance for the estimate of stratum total of area and ratio are estimated by the following formulas.

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

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

Where,

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

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 .

$\hat{A}_{hi}, \hat{Y}_{hi}, \hat{X}_{hi}$ are weighted total of area, characteristic y and characteristic x , respectively, of the i^{th} EA and h^{th} stratum.

$\hat{A}_{hij}, \hat{Y}_{hij}, \hat{X}_{hij}$ are weighted values of area, characteristic y and characteristic 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.

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

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.

5. Coefficient of Variation (CV) of Estimates:

Coefficient of Variation (CV) in percentage of estimate of stratum total of area is given by:

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

6. Ninety-Five Percent Confidence Interval (CI) of Stratum Total of Area:

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

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

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

APPENDIX II:
ESTIMATES OF STANDARD ERRORS AND COEFFICIENTS OF VARIATIONS

**Table 1: Standard Errors and Coefficients of Variations for Estimates of Holders and Area by Land Use Type
Ethiopia**

Type of Land Use	Holding Size					
	Under 0.10			0.10 - 0.50		
	Estimate	S.E.	C.V.(%)	Estimate	S.E.	C.V.(%)
Temporary Crop	45115.17	1727.63	3.83	1132493.71	20902.85	1.85
Number of holders	1967008.74	69529.84	3.53	6612970.11	108263.19	1.64
Permanent Crop	64915.2	3416.49	5.26	532821.4	16128.52	3.03
Number of holders	110030.38	4164.93	3.79	1665315.11	27804.42	1.67
Fallow Land	2848913.21	96433.88	3.38	7392062.43	108667.19	1.47
Grazing Land	1573.11	200.6	12.75	35062.17	2357.26	6.72
Wood Land	8450.62	721.73	8.54	159224.23	7094.43	4.46
Other Land	2647.93	217.23	8.2	44256.01	2602.66	5.88
All Land	50703.62	1273.88	2.51	171690.09	5216.65	3.04
Number of holders	173405.65	5106.51	2.94	2075547.6	32152.24	1.55

Table 1 cont'd

Type of Land Use	Holding Size					
	0.51 - 1			1.01 - 2		
	Estimate	S.E.	C.V.(%)	Estimate	S.E.	C.V.(%)
Temporary Crop	2448303.8	42035.54	1.72	4512923.33	82183.65	1.82
Number of holders	4755033.36	78182.87	1.64	4275627.5	69186.19	1.62
Permanent Crop	443903.95	18059.82	4.07	467343.09	23798.63	5.09
Number of holders	2892207.74	48737.81	1.69	4980266.42	87351.13	1.75
Fallow Land	4870287.15	80759.85	1.66	4310646.95	69552.11	1.61
Grazing Land	79846.44	4978.94	6.24	135592.11	7607.92	5.61
Wood Land	269241.26	10573.16	3.93	507832.74	19205.36	3.78
Other Land	69893.55	4255.91	6.09	103853.77	6664.18	6.42
All Land	230683.39	10835.5	4.7	331687.31	14599.43	4.4
Number of holders	3541872.39	57940.83	1.64	6059232.35	100804.97	1.66

Table 1 cont'd

Type of Land Use	Holding Size					
	2.01 - 5			5.01 - 10		
	Estimate	S.E.	C.V.(%)	Estimate	S.E.	C.V.(%)
Temporary Crop	4310128.93	124717.71	2.89	801782.29	64631.4	8.06
Number of holders	2025607.49	54348.1	2.68	166783.02	11983.17	7.18
Permanent Crop	336558.05	24963.73	7.42	48009.17	8309.37	17.31
Number of holders	4646686.98	132192	2.84	849791.46	66059.43	7.77
Fallow Land	2034366.86	54429.72	2.68	166833.29	11983.15	7.18
Grazing Land	140618.62	12236.04	8.7	25066.32	4667.9	18.62
Wood Land	597732.95	33736.4	5.64	120346.8	13827.5	11.49
Other Land	89576.64	7023.95	7.84	12709.07	3563.03	28.04
All Land	285076.44	17642.14	6.19	47397.22	11344.39	23.93
Number of holders	5759691.64	161859.6	2.81	1055310.88	78406.13	7.43

Table 1 cont'd

Type of Land Use	Holding Size					
	Over 10			Total		
	Estimate	S.E.	C.V.(%)	Estimate	S.E.	C.V.(%)
Temporary Crop	382108.8	81726.13	21.39	13632856.02	210144.45	1.54
Number of holders	25286.46	4324.38	17.1	19828316.68	142172.63	0.72
Permanent Crop	81367.72	57285.61	70.4	1974918.58	77075.01	3.9
Number of holders	463476.51	117253.03	25.3	15607774.6	233852.56	1.5
Fallow Land	25286.46	4324.38	17.1	21648396.35	127854	0.59
Grazing Land	16936.89	8916.1	52.64	434695.65	24191.69	5.57
Wood Land	19057.82	7578.31	39.76	1681886.43	55412.61	3.29
Other Land	6545.34	4987.33	76.2	329482.31	15490.18	4.7
All Land	58757.98	37747.11	64.24	1175996.07	54888.98	4.67
Number of holders	564774.55	152255.79	26.96	19229835.06	284467.04	1.48

Table -2: Standard Errors and Coefficients of variations for Estimates of Households by Household and Holding Size Ethiopia

Ssize of Holding In Hectares	Household Size					
	All Households			Households with One Member		
	Estimate	S.E.	CV In %	Estimate	S.E.	CV In %
All sizes	122,059,737	771,080.14	0.63	22,812,081.83	124,564.35	0.55
Under 0.10 Hectare	21,222,984.08	544,189.27	2.56	4,150,462.84	101,947.74	2.46
0.10 - 0.50 Hectare	37,025,394.04	615,650.40	1.66	7,270,621.95	107,391.88	1.48
0.51 - 1 Hectare	25,672,054.71	475,400.33	1.85	4,819,740.36	80,058.60	1.66
1.01 - 2 Hectare	24,034,368.13	406,426.33	1.69	4,302,657.11	68,593.86	1.59
2.01 - 5 Hectare	12,770,341.90	358,223.43	2.81	2,068,219.77	54,731.78	2.65
5.01 - 10 Hectare	1,147,868.51	84,508.65	7.36	174,288.38	12,361.11	7.09
Over 10 Hectare	186,725.98	36,298.01	19.44	26,091.42	4,369.86	16.75

Table -2: cont'd

Ssize of Holding In Hectares	Household Size					
	Households with 2 – 3 Members			Households with 4 – 5 Members		
	Estimate	S.E.	CV In %	Estimate	S.E.	CV In %
All sizes	541,268.22	19,803.21	3.66	4,643,868.24	62,964.17	1.36
Under 0.10 Hectare	238,370.07	12,825.52	5.38	1,022,588.31	36,854.10	3.60
0.10 - 0.50 Hectare	184,645.51	10,934.25	5.92	1,709,999.08	41,754.16	2.44
0.51 - 1 Hectare	76,962.28	6,722.45	8.73	969,245.19	27,655.55	2.85
1.01 - 2 Hectare	33,165.42	4,168.75	12.57	712,373.65	23,107.82	3.24
2.01 - 5 Hectare	7,411.11	2,113.96	28.52	212,210.19	11,053.55	5.21
5.01 - 10 Hectare	300.67	215.40	71.64	15,496.07	3,256.85	21.02
Over 10 Hectare	413.16	412.23	99.78	1,955.75	1,060.67	54.23

Table -2: cont'd

Ssize of Holding In Hectares	Household Size					
	Households with 6 – 9 Members			Households with 10 or more Members		
	Estimate	S.E.	CV In %	Estimate	S.E.	CV In %
All sizes	7,655,457.30	85,165.86	1.11	8,801,364.94	84,647.13	0.96
Under 0.10 Hectare	1,282,376.26	47,876.66	3.73	1,297,473.61	44,171.91	3.40
0.10 - 0.50 Hectare	2,515,713.48	60,727.73	2.41	2,578,831.62	57,720.09	2.24
0.51 - 1 Hectare	1,711,090.26	43,183.47	2.52	1,851,482.03	44,866.55	2.42
1.01 - 2 Hectare	1,488,959.41	34,708.46	2.33	1,878,687.59	42,189.74	2.25
2.01 - 5 Hectare	608,543.86	21,588.31	3.55	1,087,624.65	36,420.36	3.35
5.01 - 10 Hectare	42,848.92	4,354.50	10.16	93,179.65	8,052.44	8.64
Over 10 Hectare	5,925.11	1,735.55	29.29	14,085.79	3,405.37	24.18

Table 6: Standard Errors and Coefficients of Variations for the Estimates of Holder and Area by Holding Size & type and Tenure System
Ethiopia

Size of Holding By Tenure	Crop Holding			Holding Area in Hectare		
	Estimate	S.E.	CV %	Estimate	S.E.	CV %
Holdings Under 0.10 Hectare						
All Tenure	1,007,785.94	47,445.47	4.71	43,937.20	2,269.31	5.16
Land Owned	964,863.96	45,655.13	4.73	42,230.39	2,239.42	5.30
Land Rented	34,539.64	5,552.85	16.08	465.81	101.20	21.73
Other Tenure	67,244.78	10,723.89	15.95	1,241	211.74	17.06
Holdings 0.10 - 0.50 Hectares						
All Tenure	1,086,787.36	40,597.73	3.74	270,526.82	9,689.51	3.58
Land Owned	1,043,802.56	39,610.28	3.79	236,898.34	8,949.14	3.78
Land Rented	81,430.02	8,575.31	10.53	11,120.14	1,446.09	13
Other Tenure	132,453.45	10,997.32	8.30	22,508.33	2,813.12	12.50
Holdings 0.51 - 1 Hectares						
All Tenure	376,284.46	18,364.04	4.88	264,242.19	13,042.29	4.94
Land Owned	356,179.75	17,806.41	5	213,930.63	11,423.11	5.34
Land Rented	52,886.08	6,963.56	13.17	19,066.10	2,880.24	15.11
Other Tenure	86,571.14	8,368.07	9.67	31,245.46	3,503.34	11.21
Holdings 1.01 - 2 Hectares						
All Tenure	211,145.28	13,803.81	6.54	282,235.82	19,248.52	6.82
Land Owned	204,828.92	13,525.41	6.60	204,003.18	14,791.46	7.25
Land Rented	50,867.68	7,145.85	14.05	33,944.64	6,462.06	19.04
Other Tenure	66,600.50	7,468.43	11.21	44,288	6,439.83	14.54
Holdings 2.01 - 5 Hectares						
All Tenure	50,916.17	5,910.72	11.61	137,198.73	16,989.30	12.38
Land Owned	46,908.66	5,720.93	12.20	84,051.71	11,681.91	13.90
Land Rented	14,785.37	2,572.37	17.40	21,983.84	5,000.24	22.75
Other Tenure	20,943.46	4,324.09	20.65	31,163.18	7,672.13	24.62
Holdings 5.01 - 10 Hectares						
All Tenure	7,255.32	2,046.27	28.20	47,045.75	13,764.67	29.26
Land Owned	6,547.32	1,797.19	27.45	34,851.56	11,439.35	32.82
Land Rented	2,649.55	1,246.02	47.03	8,360.97	3,701.40	44.27
Other Tenure	1,952.01	979.32	50.17	3,833.22	3,119.80	81.39
Holdings Over 10 Hectares						
All Tenure	1,409.51	1,008.15	71.52	52,449.59	44,510.54	84.86
Land Owned	1,409.51	1,008.15	71.52	21,116.89	15,119.25	71.60
Land Rented	583.19	582.21	99.83	31,332.70	31,280.23	99.83
Other Tenure	-	-	-	-	-	-
Holdings of All Size						
All Tenure	2,741,584.04	76,686.50	2.80	1,097,636.09	61,571.22	5.61
Land Owned	2,624,540.68	74,642.26	2.84	837,082.69	37,608.43	4.49
Land Rented	237,741.53	17,027.82	7.16	126,274.20	32,841.45	26.01
Other Tenure	375,765.34	21,499.02	5.72	134,279.19	14,360.23	10.69

Table 6 cont'd
Ethiopia Livestock Holding

Size of Holding By Tenure	Number of Holders			Holding Area in Hectare		
	Estimate	S.E.	CV %	Estimate	S.E.	CV %
Holdings Under 0.10 Hectare						
All Tenure	1,344,298.60	32,777.85	2.44	28,818.34	915.63	3.18
Land Owned	1,269,417.63	30,991.52	2.44	27,589.69	890.86	3.23
Land Rented	43,576.32	6,455.45	14.81	492.72	93.75	19.03
Other Tenure	36,894.57	4,359.26	11.82	735.93	114.06	15.50
Holdings 0.10 - 0.50 Hectares						
All Tenure	83,051.89	8,109.20	9.76	16,495.40	1,744.30	10.57
Land Owned	81,540.23	8,088.99	9.92	15,923.05	1,730.56	10.87
Land Rented	1,555.39	1,045.78	67.24	263.44	168.86	64.10
Other Tenure	2,101.38	380.29	18.10	308.91	73.73	23.87
Holdings 0.51 - 1 Hectares						
All Tenure	14,477.74	2,277.61	15.73	10,148.92	1,517.94	14.96
Land Owned	14,477.74	2,277.61	15.73	9,708.16	1,417.65	14.60
Land Rented	1,692.87	896.77	52.97	440	253.51	57.62
Other Tenure	26.33	25.83	98.08	0.76	0.74	98.08
Holdings 1.01 - 2 Hectares						
All Tenure	6,591.65	1,721.53	26.12	8,779.01	2,428.96	27.67
Land Owned	6,591.65	1,721.53	26.12	8,770.32	2,429.16	27.70
Land Rented	-	-	-	-	-	-
Other Tenure	8.66	8.23	95	8.69	8.26	95
Holdings 2.01 - 5 Hectares						
All Tenure	3,870.34	1,823.19	47.11	11,688.27	6,094.95	52.15
Land Owned	3,870.34	1,823.19	47.11	10,658.93	5,231.89	49.08
Land Rented	-	-	-	-	-	-
Other Tenure	539.26	540.97	100.32	1,029.34	1,032.61	100.32
Holdings 5.01 - 10 Hectares						
All Tenure	212.34	211.50	99.61	1,329.56	1,324.31	99.61
Land Owned	212.34	211.50	99.61	1,329.56	1,324.31	99.61
Land Rented	-	-	-	-	-	-
Other Tenure	-	-	-	-	-	-
Holdings Over 10 Hectares						
All Tenure	258.05	256.80	99.51	3,248.57	3,232.78	99.51
Land Owned	258.05	256.80	99.51	3,248.57	3,232.78	99.51
Land Rented	-	-	-	-	-	-
Other Tenure	-	-	-	-	-	-
Holdings of All Size						
All Tenure	1,452,760.61	35,239.01	2.43	80,508.07	8,515.81	10.58
Land Owned	1,376,367.98	33,382.15	2.43	77,228.28	7,920.54	10.26
Land Rented	46,824.58	6,849.93	14.63	1,196.16	331.78	27.74
Other Tenure	39,570.20	4,411.92	11.15	2,083.63	1,041.69	49.99

Table 6 cont'd
Ethiopia Crop and Livestock Holding

	Number of Holders			Holding Area in Hectare		
Size of Holding By Tenure	Estimate	S.E.	CV %	Estimate	S.E.	CV %
Holdings Under 0.10 Hectare						
All Tenure	1,892,885.42	75,016.49	3.96	100,650.12	4,222.10	4.19
Land Owned	1,865,731.99	74,751.28	4.01	97,955.26	4,195.27	4.28
Land Rented	34,438.05	4,837.74	14.05	725.08	125.29	17.28
Other Tenure	83,458.41	8,905.04	10.67	1,969.77	289.80	14.71
Holdings 0.10 - 0.50 Hectares						
All Tenure	6,320,724.09	107,263.80	1.70	1,788,525.38	30,633.50	1.71
Land Owned	6,279,255.27	107,011.39	1.70	1,677,606.37	29,641.92	1.77
Land Rented	239,967.80	14,923.08	6.22	31,272.26	2,641.44	8.45
Other Tenure	691,995.89	31,259.03	4.52	79,646.75	4,574.22	5.74
Holdings 0.51 - 1 Hectares						
All Tenure	4,512,028.03	80,336.35	1.78	3,267,481.29	57,187.07	1.75
Land Owned	4,486,916.98	80,424.34	1.79	2,859,011.29	54,328.94	1.90
Land Rented	441,592.24	20,385.16	4.62	122,047.24	6,926.65	5.68
Other Tenure	965,269.66	32,940.82	3.41	286,422.75	11,437.47	3.99
Holdings 1.01 - 2 Hectares						
All Tenure	4,104,033.92	67,980.89	1.66	5,768,217.52	98,439.19	1.71
Land Owned	4,089,998.14	67,981.83	1.66	4,784,084.80	88,320.22	1.85
Land Rented	652,619.55	28,186.12	4.32	322,669.45	17,830.92	5.53
Other Tenure	1,234,179.62	38,071.32	3.08	661,463.26	24,241.85	3.66
Holdings 2.01 - 5 Hectares						
All Tenure	1,985,259.19	53,416.79	2.69	5,610,804.64	158,792.77	2.83
Land Owned	1,973,639.22	53,068.43	2.69	4,407,095.67	134,781.03	3.06
Land Rented	487,288.26	21,117.36	4.33	460,979.41	25,249.70	5.48
Other Tenure	713,230.40	31,531.49	4.42	742,729.56	42,399.79	5.71
Holdings 5.01 - 10 Hectares						
All Tenure	159,577.97	11,609.45	7.28	1,006,935.56	75,647.08	7.51
Land Owned	158,834.12	11,607.22	7.31	762,099.29	59,684.38	7.83
Land Rented	58,675.16	7,182.44	12.24	153,311.45	23,640.91	15.42
Other Tenure	46,881.08	5,226.76	11.15	91,524.82	13,216.40	14.44
Holdings Over 10 Hectares						
All Tenure	23,876.95	4,205.22	17.61	509,076.39	145,568.50	28.59
Land Owned	23,876.95	4,205.22	17.61	462,458.89	143,071.04	30.94
Land Rented	5,367.76	1,765.34	32.89	18,396.43	7,195.21	39.11
Other Tenure	6,490.11	1,857.52	28.62	28,221.07	12,821.12	45.43
Holdings of All Size						
All Tenure	*	*	*	*	*	*
Land Owned	*	*	*	*	*	*
Land Rented	1,919,948.82	53,570.85	2.79	1,109,401.32	46,479	4.19
Other Tenure	3,741,505.17	79,786.11	2.13	1,891,978	63,194.10	3.34

Table 6 cont'd
Ethiopia All Holding

Size of Holding By Tenure	Number of Holders			Holding Area in Hectare		
	Estimate	S.E.	CV %	Estimate	S.E.	CV %
Holdings Under 0.10 Hectare						
All Tenure	4,244,969.96	104,528.37	2.46	173,405.65	5,106.51	2.94
Land Owned	4,100,013.58	101,497.83	2.48	167,775.35	5,068.89	3.02
Land Rented	112,554.01	12,234.87	10.87	1,683.61	209.10	12.42
Other Tenure	187,597.76	17,246.62	9.19	3,946.70	392.12	9.94
Holdings 0.10 - 0.50 Hectares						
All Tenure	7,490,563.34	108,784.19	1.45	2,075,547.60	32,152.24	1.55
Land Owned	7,404,598.06	108,107.62	1.46	1,930,427.77	30,791.25	1.60
Land Rented	322,953.21	18,974.48	5.88	42,655.85	3,333.58	7.82
Other Tenure	826,550.72	35,098.43	4.25	102,463.99	5,916.64	5.77
Holdings 0.51 - 1 Hectares						
All Tenure	4,902,790.23	81,154.49	1.66	3,541,872.39	57,940.83	1.64
Land Owned	4,857,574.47	81,442.32	1.68	3,082,650.08	55,203.24	1.79
Land Rented	496,171.19	22,287.68	4.49	141,553.35	7,734.67	5.46
Other Tenure	1,051,867.13	34,151.08	3.25	317,668.97	12,291.03	3.87
Holdings 1.01 - 2 Hectares						
All Tenure	4,321,770.85	69,545.36	1.61	6,059,232.35	100,804.97	1.66
Land Owned	4,301,418.71	69,540.52	1.62	4,996,858.30	90,999.72	1.82
Land Rented	703,487.23	29,526.46	4.20	356,614.09	19,763.32	5.54
Other Tenure	1,300,788.78	39,228.52	3.02	705,759.96	25,051.21	3.55
Holdings 2.01 - 5 Hectares						
All Tenure	2,040,045.70	54,487.81	2.67	5,759,691.64	161,859.60	2.81
Land Owned	2,024,418.22	54,081.66	2.67	4,501,806.31	137,208.08	3.05
Land Rented	502,073.63	21,550.01	4.29	482,963.25	26,653.62	5.52
Other Tenure	734,713.12	31,885.47	4.34	774,922.08	43,195.25	5.57
Holdings 5.01 - 10 Hectares						
All Tenure	167,045.63	11,985.97	7.18	1,055,310.88	78,406.13	7.43
Land Owned	165,593.78	11,906.96	7.19	798,280.41	61,958.73	7.76
Land Rented	61,324.71	7,312.58	11.92	161,672.42	24,237.09	14.99
Other Tenure	48,833.09	5,412.50	11.08	95,358.04	14,365.94	15.07
Holdings Over 10 Hectares						
All Tenure	25,544.51	4,332	16.96	564,774.55	152,255.79	26.96
Land Owned	25,544.51	4,332	16.96	486,824.34	143,904.02	29.56
Land Rented	5,950.95	1,858.87	31.24	49,729.13	32,097.10	64.54
Other Tenure	6,490.11	1,857.52	28.62	28,221.07	12,821.12	45.43
Holdings of All Size						
All Tenure						
Land Owned						
Land Rented	2,204,514.93	60,760.37	2.76	1,236,871.69	60,158.95	4.86
Other Tenure	4,156,840.71	85,305.66	2.05	2,028,340.81	65,521.18	3.23

APPENDIX III:

Number of EAs, Households Sampled and Covered, Number of Parcels and fields Measured

APPENDIX III - Number of EAs and Households Planned and Actually Covered

Region	Stratum	Enumeration Areas		Households	
	Zone/Sp.Woreda	Planned	Covered	Planned	Covered
Tigray	North-Western Tigray	36	-	720	-
	Central Tigray	38	-	760	-
	Eastern Tigray	34	-	680	-
	Southern Tigray	34	-	680	-
	Western Tigray	31	-	620	-
	South -East Tigray	33	-	660	-
	Region Total	206	-	4,120	-
Afar	Zone_ 1 (Awsu Resu)	26	23	520	460
	Zone_ 2 (Kelbet Resu)	28	26	560	520
	Zone_ 3 (Gebi Resu)	25	22	500	440
	Zone_ 4 (Fenti Resu)	25	22	500	440
	Zone_ 5 (Hari Resu)	26	26	520	520
	Region Total	130	119	2,600	2,380
Amhara	North Gondar	36	36	720	720
	South Gondar	46	46	920	920
	North Wollo	42	42	840	840
	South Wollo	53	53	1,060	1,060
	North Shewa	44	44	880	880
	East Gojam	46	46	920	920
	West Gojam	52	51	1,040	1,020
	Waghimra	34	31	680	620
	Awi	38	34	760	680
	Oromo Nationality zone	33	33	660	660
	Central Gondar	49	48	980	960
	Western Gonder	30	30	600	600
	Region Total	503	494	10,060	9,880
Oromia	West Wellega	38	11	760	220
	East Wellega	37	34	740	680
	Ilu Ababora	34	34	680	680
	Jimma	44	44	880	880
	West Shewa	40	38	800	760
	North Shewa	38	35	760	700
	East Shewa	37	37	740	740
	Arsi	42	41	840	820
	West Hararghe	41	41	820	820
	East Hararghe	44	44	880	880
	Bale	38	36	760	720
	East Bale	28	27	560	540
	Borena	30	27	600	540
	South-West Shewa	36	36	720	720
	Guji	37	29	740	580
	Western Guji	36	26	720	520
	Finfinne Zuria Special Zone	29	29	580	580
	West Arsi	41	40	820	800
	Kellem Wellega	34	7	680	140
	Horo Guduru Wellega	32	32	640	640
	Buno Bedele	33	33	660	660
	Region Total	769	681	15,380	13,620

APPENDIX III Continued

Region	Stratum	Enumeration Areas		Households	
	Zone/Sp.Woreda	Planned	Covered	Planned	Covered
Somali	Siti	27	24	540	480
	Fafan	33	32	660	640
	Jerer	31	31	620	620
	Erer	29	29	580	580
	Korahe	27	26	540	520
	Shebele	31	30	620	600
	Dollo	31	30	620	600
	Afder	31	30	620	600
	Liben	29	29	580	580
	Nogob	22	22	440	440
	Dawa	25	23	500	460
	Region Total	316	306	6,320	6,120
Benishangul_Gumuz	Metekel	30	19	600	380
	Asosa	29	27	580	540
	Kamashi	24	12	480	240
	Mao-Komo Special Woreda	20	19	400	380
	Region Total	103	77	2,060	1,540
S.N.N.P	Guraghe	39	36	780	720
	Hadiya	37	37	740	740
	Kembata-Tembaro	32	32	640	640
	Gedio	35	35	700	700
	Wolayita	39	39	780	780
	South Omo	35	34	700	680
	Shaka	27	9	540	180
	Kaffa	37	37	740	740
	Gamo-Goffa	41	40	820	800
	Bench-Maji	35	31	700	620
	Yem Special Woreda	22	22	440	440
	Dawro	32	32	640	640
	Basketo Special Woreda	20	20	400	400
	Konta Special Woreda	24	24	480	480
	Siltie	35	34	700	680
	Halaba	28	25	560	500
	Segen People's Zone	33	29	660	580
	Region Total	551	516	11,020	10,320
Gambella	Agnuak	21	16	420	320
	Nuer	20	17	400	340
	Mejenger	23	22	460	440
	Itang Special Woreda	20	18	400	360
	Region Total	84	73	1,680	1,460
Harari	Harari	30	29	600	580
Dire Dawa	Dire Dawa	30	30	600	600
Sidama	Sidama	46	46	920	920
Country Total		2,768	2,371	55,360	47,420

APPENDIX IV:
Survey Questionnaire

CENTRAL STATISTICS AGENCY
ANNUAL AGRICULTURAL SAMPLE SURVEY
(2013 E.C)

SECTION 1: Area Identification

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Region	Zone	Woreda	Kebele	EA	HH ID	Sex of HH head M = 1 F = 2	Holder ID	Holder's					Type of agriculture Crop = 1 Livestock = 2 Both = 3
								Name	Age	Sex M = 1 F = 2	Level of education completed	House hold size	

SECTION 2:- Field /Other land use details

15	16	17			
S. No.	Questions for the holder	Parcel No.		Plot/field No.	
		The field is covered by: Single crop = 1 Mixed crops = 2 Other land use = 3			
		Crop/other land use name	Crop name	Crop name	
		Code		Code	
1	Type of holding: Own = 1 Rented in = 2 Sharecrop in = 3 Other (specify) = 4				
1.1	For how Much did you rent this plot? If it is your own, how much would you pay if you rent it? (If it is share cropped in, estimate the share of the production that you will share to the owner of the plot in birr.)				
2	Is the field under extension program/ Service? Yes = 1 No = 2				
3	Was this field /plot Irrigated? Yes = 1 No = 2 → Q4				
3.1	If it was irrigated, source of water: River = 1 Lake = 2 Pond = 3 Harvested water = 4 Well/ground water = 5 Dam = 6 other (specify) = 7				
3.2	Type of irrigation: Full/conventional irrigation = 1 Supplemental irrigation = 2				
4	How many times was the field tilled in this production season? Zero tillage (direct drill/seedling) = 1 Tilled once = 2 Tilled two times = 3 Tilled three or more times = 4 Not at all(not cultivated) = 5				
4.1	Slope of the field/plot: Plain = 1 partially slopy = 2 slopy = 3				
5	Did you use prevention methods against soil erosion on this field? Yes = 1 No = 2 → Q6				
5.1	If the answer to Q5 is Yes, main soil erosion preventive method used: Terracing = 1 Bund = 2 Planting trees = 3 Plough across the contour = 4 Rotational grazing = 5 avoiding grazing = 6 Creating grassed waterways = 7 Other (specify) = 8				
6	Do you apply any method to maintain /improve soil organic matters on this field/plot? Yes = 1 No = 2 → Q7				

6.1	(If the response to Q6 is YES, what method do you mainly used? Growing/Sowing temporary crops in rows between permanent(perennial) crops = 1 Covering the soil with leaves and crop residues= 2 Using natural(organic) fertilizer =3 Using chemical fertilizers properly(appropriate placement) =4 By avoiding loose grazing= 5 By sowing/growing different types of crops in one field= 6 intercropping the complexity crop rotations with leguminous(Pulses) crops= 7 other(specify) = 8						
7	How were seeds planted/ sowed? (For only Temporary crops) <i>Broadcasting = 1 Row planting = 2</i>						
8	If more than one crop grown or if crops were intercropped, give the percentage of land devoted to each crop (the total percentage should equal 100).						
9	Number of Plants or trees on the field (for permanent crops only). (exclude chat, pineapple and sugarcane)						
10	Number of matured plants or trees (in full production) on the field (exclude chat, pineapple and sugarcane)						
11	Of the total area of this field, what percent of it is devoted to trees in full production (for each crop type)?						
12	(For "enset" trees only) Number of trees harvested/to be harvested in the production season:						
13	Type of seed/seedling sowed/planted: Improved seed = 1 local seed = 2 → Q16						
13.1	If code 1 for Q13, the seed used was: (For only Temporary crops) New improved seed for this production season = 1 Improved seed left over from last year production season = 2 Improved seed saved from previous harvest = 3 (if Code 2 or 3 for Q13.1, → Q16)						
13.2	If code 1 for Q13.1, From whom/or institution did you obtain/purchase the seed? Code (a) : (codes are available in enumerators manual).						
14	(For Cereals, Pulses and Oil seeds only:) If improved seeds are used, (If code 1 for Q13, quantity of seed used (in Kg)	Kg	Gm	Kg	Gm	Kg	Gm
15	(For Cereals, Pulses and Oil seeds only:) If improved seeds are used, (If code 1 in Q13), Total cost of seed(Birr)	Birr	Cents	Birr	Cents	Birr	Cents
16	(For Cereals, Pulses and Oil seeds only:) If local seeds are used, (If code 2 in Q13, Code 2 or 3 in Q13.1), quantity (in Kg)	Kg	Gm	Kg	Gm	Kg	Gm
16.1	(For Cereals, Pulses and Oil seeds only:) If local seeds are used, (If code 2 in Q13, Code 2 or 3 in Q13.1), Total cost of seed(Birr)	Birr	Cents	Birr	Cents	Birr	Cents
17	Was there any crop damage on this field? Yes = 1 No = 2 (if the answer is no to Q17, → Q20)						
18	If there was crop damage, (if code 1 for Q17): Main cause of damage: → Code for main cause: →						
19	Percent damaged (if code 1 for Q17):						
20	Have you applied any preventive methods against crop damage? Yes = 1 No = 2 (if the answer to Q20 is no, → Q23)						
21	Type of preventive methods (if code 1 to Q20): Chemical = 1 Natural/traditional/ = 2 Both = 3						

SECTION 2:- Field /Other land use details Cont'd

15	16	17							
22	If chemical was used, type of chemical: <i>Pesticide = 1 Herbicide = 2 fungicides = 3 1 & 2 = 4 1 & 3 = 5 2 & 3 = 6 All = 7</i>								
23	Have you applied/used natural/chemical fertilizers on this field? Yes = 1 No = 2 (if the answer to Q23 is no → Q27)								
24	If fertilizer was applied, type of fertilizer: <i>Natural = 1 Chemical = 2 Both = 3</i>								
25	If chemical fertilizer was applied, (if code 2 or 3 to Q24):								
	25.1 Type of chemical fertilizer: UREA = 1 DAP = 2 UREA & DAP = 3 NPS = 4 NPS & UREA = 5 Blended = 6 UREA & Blended = 7								
	25.2. Quantity of chemical fertilizer applied to the field (by fertilizer type):	Kg	<u>DAP</u> Gm	Kg	<u>UREA</u> Gm	<u>NPS</u> Gm	Kg	<u>Blended</u> Kg	Gm
	25.3.If used(applied) chemical fertilizer Total Cost (by fertilizer type):	Birr	Cents	Birr	Cents	Birr	Cents	Birr	Cents
26	If natural fertilizer was used, (if code 1 or 3 to Q24), type of natural fertilizer: Animal waste/manure = 1 compost = 2 Orga = 3 1 & 2 = 4 1 & 3 = 5 2 & 3 = 6 all = 7 other(specify) = 8								
27	Number of times you harvest from this field/plot in this season?								
28	If you harvest twice or more from this plot in this production season, name of crop harvested: (more than one crop possible).	Crop name	Code	Crop name	Code	Crop name	Code		
29	What was the field before this production season? Left fallow = 1 own cropped/cultivated land = 2 government forest/ tef/swamp = 3 communal grazing/forest/tef land = 4 grazing/forest/tef land under other holder = 5 Cropped/cultivated land under other owner = 6 Own forest/grazing land /tef/swamp=7 other (specify) = 8								
30	Number of oxen/other animals used during Land Clearing,land preparation and planting								
30.1	Total Cost paid for animal services(oxens/other animals) during Land Clearing,land preparation and planting(If own animals used, Estimated Cost)								
		Male	Female	Child					
31	Number of days family members spent on this field during Land Clearing,land preparation and planting(In Person-days)								
31.1	Estimated cost for family members participated on this field during Land Clearing,land preparation and planting(In Birr)								
32	Number of days hired persons spent during Land Clearing,land preparation and planting(In Person-days)								
32.1	Total cost for hired persons during Land Clearing,land preparation and planting(In Birr)								
33	Labour sharing(Debo,Wenfel,Jigi): Number of days persons in the work party spent during Land Clearing,land preparation and planting(In Person-days)								
33.1	Total Cost paid for persons participated in the work party,(Including spent in the form of foods,drinks,....etc)(In Birr)								
34	Total cost spent for mationary service during Land Clearing,land preparation and planting (If own mationary used, estimate in monetary value)(In Birr)								
35	Total cost spent for animal service for transport during Land Clearing,land preparation and planting .(In Birr)								

CENTRAL STATISTICAL AGENCY
ETHIOPIAN AGRICULTURAL SAMPLE SURVEY 2020/21 (2013 E.C)

PART I – IDENTIFICATION PARTICULARS

SECTION 1: Area Identification

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Region	Zone	Woreda	Kebele	EA	HH ID	Sex of HH head M = 1 F = 2	Holder ID	Holder's					Type of agriculture Crop = 1 Livestock = 2 Both = 3
								Name	Age	Sex M = 1 F = 2	Level of education completed	House hold size	

PART II – MISCELLANEOUS QUESTIONS FOR THE HOLDER

15	16	17
SER.NO.	QUESTIONS	CODE
1	Do you practice crop rotation on your land holding? 1. Yes 2. No 3. they have no farmland	
2	If you have not used chemical fertilizer on any of your farm, what was the main reason? Ignorance 1 High price 2 Lack of Money 3 Lack of supply 4 lack of credit service 5 Skeptical of the outcome 6 Others (specify) 7 Used chemical fertilizers 8 Not Applicable 9	
3	If you did not obtain any extension service on any of your fields, what was the main reason? Ignorance 1 Lack of Money 2 Skeptical of the outcome 3 Non – availability of the program 4 Lack of adequate crop fields 5 Others (specify) 6 participated in Extension Program 7 Not Applicable 8	
4	Are you a beneficiary of credit service for agricultural purpose in the survey year? 1. Yes 2. No	
4.1	If you were a beneficiary of credit service, from whom did you obtain the credit? From Government 1 From Private loan organization 2 From Non Governmental Organization(NGO) 3 From Association(Corporation) 4 Others (specify) 5	
5	If you are not beneficiary of credit what was the reason? Non availability of the service 1 Unable to pay the loan 2 Inadequate services provided 3	

	Ignorance	4	
	Does not yield any results	5	
	Others(specify)	6	
6	In the survey year, did you receive agriculture related advice? 1. Yes 2. No		
7	If you didn't receive advice, (cod 2 Q # 6) Why?		
	Non availability of the service	1	
	Inadequate services provided	2	
	Ignorance	3	
	Does not yield any results	4	
	Others(specify)	5	
8	what was your main source of purchase of chemical of fertilizers?		
	Government organizations	1	
	Private organizations	2	
	Merchants	3	
	Associations	4	
	Others (Specify)	5	
	I don't purchased chemical fertilizer	6	
9.1	Total chemical fertilizer obtained and prepared for use in any form it includes purchased, gift, loan or support by type of chemical fertilizer in kilo gr(for this meher season)		
	Quantity of total UREA obtained for the current Meher season in Kilo Gram(KG)		
	Quantity of total DAP obtained for the current Meher season in Kilo Gram(KG)		
	Quantity of total NPS obtained for the current Meher season in Kilo Gram(KG)		
	Quantity of total BLENDED obtained for the current Meher season in Kilo Gram(KG)		
9.2	The amount of chemical fertilizers used for main season by type of fertilizers in kilo gram?		
	Quantity of total UREA obtained for the current Meher season in Kilo Gram(KG)		
	Quantity of total DAP obtained for the current Meher season in Kilo Gram(KG)		
	Quantity of total NPS obtained for the current Meher season in Kilo Gram(KG)		
	Quantity of total BLENDED obtained for the current Meher season in Kilo Gram(KG)		
9.3	The amount of UREA chemical fertilizer prepared for use in 9.1 was not equal to the amount used in 9.2, What was the reason?		
	I saved the rest for other mehr season	1	
	I saved the rest for belg season	2	
	I sold the rest	3	
	I gave the rest for someone else	4	
	Other (specify)	5	
9.3	The amount of DAP chemical fertilizer prepared for use in 9.1 was not equal to the amount used in 9.2, What was the reason?		
	The amount of NPS chemical fertilizer prepared for use in 9.1 was not equal to the amount used in 9.2, What was the reason?		
	The amount of BLENDED chemical fertilizer prepared for use in 9.1 was not equal to the amount used in 9.2, What was the reason?		
10	In general how much kilo gram of pesticides, fungicides and herbicides you used for main season?		
	Quantity of pesticide used during this meher season? (KG)		
	Quantity of fungicide used during this meher season? (KG)		
	Quantity of herbicide used during this meher season? (KG)		
11	Number of own oxen actually used for plugging during the current meher season?		
12	If you do not have enough oxen how do you plough?		
	By renting ox	1	

	By pairing mine with someone's ox	2	
	By pairing mine with other animals	3	
	Using other animals (horses or cows)	4	
	Hand digging	5	
	Using borrowed oxen	6	
	By using tractor/other machine	7	
	Other (specify)	8	
13	How many farm oxen do you have currently?		
14	What type of main farming tool do you use for ploughing?		
	Traditional plough	1	
	Modern single-plough	2	
	Modern dual plough	3	
	Tractor	4	
	Hand-held motorized plough	5	
	Hand drum	6	
	Other (specify)	7	
15	What kind of crop threshing tool do you usually use to thresh a crop?		
	Hand-threshing	1	
	By animals	2	
	By modern threshing tool	3	
	Other (specify)	4	
16	Have you ploughed additional fields over that of the previous year? 1. Yes 2. No		
17	If yes in question # 16, what was the previous status of the additional field?		
	own forest/ tef/swamp	1	
	Government forest/ tef/swamp	2	
	communal grazing/forest/tef land	3	
	grazing/forest/tef land under other holder	4	
	Other (specify)	5	
18	have you been involved in local watershed development program last year? 1. Yes 2. No		
19	How many days have you been involved?		
20	Three main tasks you did during watershed development program?		
	Terracing	1	
	Planting trees	2	
	Ketere work	3	
	Constructing water reservoirs	4	
	Constricting rood	5	
	Drainage work	6	
	Planting pit work	7	
	Ternche	8	
	Gabiyon	9	
	Constructing bridge	10	
	Stone terracing	11	
	Other (specify)	12	
21	Total cost Spent for the use of irrigation in this meher season? (no cost fill 0)		
22	Total cost Spent to prevent soil erosion during this meher season? (no cost fill 0)		
23	Total cost Spent for minor repairs to agricultural equipment's during this meher season?(no cost fill 0)		
24	Total cost Spent to product container during this meher season? (no cost fill 0)		

25	Have you heard that a disease called corona virus (COVID-19) has occurred in Ethiopia? 1. Yes 2. No	
26	<p>If YES Q25, From whom did you hear about corona virus in Ethiopia?</p> <p>Radio 1</p> <p>Television 2</p> <p>From relative/neighbor/friend 3</p> <p>Newspaper 4</p> <p>From social media (face book, Telegram, Websites etc) 5</p> <p>From Keble meeting 6</p> <p>Keeping physical distance of 1m (3 feet) 7</p> <p>Wearing recommended fabrics or medical mask 8</p> <p>Washing hands with soap and running water regularly 9</p> <p>Frequently cleaning hands with alcohol-based sanitizer 10</p> <p>Traditional ways 11</p> <p>Other 12</p>	
27	<p>What do you know about ways to prevent corona virus pandemic disease?</p> <p>Keeping physical distance of 1m (3 feet) 1</p> <p>Wearing recommended fabrics or medical mask 2</p> <p>Washing hands with soap and running water regularly 3</p> <p>Frequently cleaning hands with alcohol-based sanitizer 4</p> <p>Traditional ways 5</p> <p>Other 6</p>	
28	<p>What do you do most of the time to prevent corona virus pandemic disease?</p> <p>Keeping physical distance of 1m (3 feet) 1</p> <p>Wearing recommended fabrics or medical mask 2</p> <p>Washing hands with soap and running water regularly 3</p> <p>Frequently cleaning hands with alcohol-based sanitizer 4</p> <p>Traditional ways 5</p> <p>Other 6</p>	
29	<p>What was the main impact of corona virus pandemic disease on your farming activities?</p> <p>Farmland preparation work has been delayed 1</p> <p>The seed season has been delayed 2</p> <p>Delay in supply of agricultural inputs 3</p> <p>Lack of man power required for farming 4</p> <p>Increasing the cost of agricultural inputs 5</p> <p>It had no effect 6</p> <p>Other 7</p>	
30	Because of COVID-19 negative impact, by what percentage decreased current year area covered by crop compared to the last year?	
31	Because of COVID-19 negative impact, productivity of major crops of current year compared to the last year?	