

**THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA
CENTRAL STATISTICAL AGENCY**

AGRICULTURAL SAMPLE SURVEY

2016 /17(2010 E.C.)

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VOLUME III

REPORT ON

FARM MANAGEMENT PRACTICES

(PRIVATE PEASANT HOLDINGS, MEHER SEASON)



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STATISTICAL BULLETIN

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PART I:

INTRODUCTION AND OBJECTIVES OF THE SURVEY

1.1 INTRODUCTION

An increase in agricultural productivity is a prevailing motive for farmers and a driving force in Ethiopia's agricultural policy. The government is being utilized a considerable amount of resources to realize higher agricultural productivity and alter the state of agriculture in the country. The country's all human and material resources are rallied towards this end. Development agents, extension packages, and agricultural inputs are some of the resources that have been made available to farmers to change their style of farming and augment productivity.

One of the missions of the Central Statistical Agency (CSA) is to survey developments in agriculture and produce information about the changes taking place in it to data users to indicate whether the desired increase in agricultural productivity has materialized. Thus, to shed a ray of statistical information on agricultural productivity, the agency has been providing statistics on the extent of inputs applied area and quantity used. As part of the 2017/18 (2010 E.C) Agricultural Sample Survey, data on fertilizer, improved seed, irrigation and pesticide applied area and quantity of fertilizers and improved seeds used within the private peasant holdings was collected, processed and summarized.

The survey results presented in this bulletin and other electronic media for data users. The report comprises three parts. Part I contains the objectives of this 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 quantity of inputs used and inputs applied 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 agriculture 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 Farm Management Practice is a part, Livestock Survey and Belg Season Survey.

The specific objectives of Meher Season Survey (Farm Management Practice) are to estimate the total volume of inputs used, inputs applied area and number of holders using inputs. Companion reports are published separately with estimates of area and production of crops and land use area. This report on Farm Management Practice is based on the private peasant holdings in sedentary rural areas of the country. The data is disaggregated 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 2017/18 (2010 E.C.) Annual Agricultural Sample Survey (Meher Season) dealt with includes all cereals, pulses and oilseeds and the most commonly grown vegetables, root crops and permanent (perennial) crops. Holders growing at least one or more of these and/ or other crops are enumerated and data on crop area and yield condition recorded, hence data on production of these crops acquired.

The 2017/18 (2010 E.C.) Annual Agricultural Sample Survey (Meher season) covered the entire rural parts of the country except the non-sedentary population of three zones of Afar & six zones of Somali regions. To be covered by the survey, a total of **1,600** Enumeration Areas (EAs) were selected. However, due to various reasons that are beyond control, in 17 EAs the survey could not be successful and hence interrupted. Thus, all in all the survey succeeded to cover **1,583** EAs (98.94%) throughout the regions. The Annual Agricultural Sample survey (Meher season) was conducted on the basis of 15 agricultural households selected from each EA. Regarding the ultimate sampling units, it was intended to cover a total of 24,000 agricultural households, however, 23,263 (96.93%) were actually covered by the survey.

2.2 Sampling Frame

The list containing EAs of all regions and their respective households obtained from the 1999 E.C cartographic census 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.

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 2017/18 (2010 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 regions 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 sampling technique; size being number of agricultural households. The sizes for EAs were obtained from the 2007 Population and Housing census frame. From the fresh list of households prepared at the beginning of the survey, 15 agricultural households within each sample EA were selected systematically. Estimation procedure of totals, ratios, sampling error and the measurement of precision of estimates (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 Desks 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 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 1,680 enumerators, 534 field supervisors and 204 statisticians were involved in the data collection where on the average one supervisor was assigned to three enumeration areas for supervision of data collection. All the enumerators were supplied with the necessary survey equipment 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 Adama and lasted for 6 days targeted staff from the Head Office, statisticians 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 supervisors for 14 days in all the twenty-four 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, interviewing procedures, 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 reading and interviewing methods.

2.7. Method of Data Collection

The agricultural data for the year 2017/18 (2010 E.C.) was collected from sedentary rural peasant households by interviewing the selected agricultural holders and physically measuring their fields to obtain data on crop yields and other items of interest. The data obtained were recorded in various forms designed for this purpose. Instruments like measuring tape; compass, kitchen balance, scientific calculators, GPS (Oromiya region only) 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 holders were performed for the 15 selected households from each sampled E.A. using measuring tapes, compasses as well as GPS.

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 prerequisite 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): - an enumeration area in the rural parts of the country is a locality that is in most of the cases less than and only in some cases equal to a farmers' association in geographical area and usually consists of 150-200 households

Household: - a household may be either:

- a) A one person household, that is a person who makes provisions for his own living with out 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 with out 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 or mixed crops or any other form of 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 and making fabrics or clothing.

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 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. oranges, mandarin, bananas, etc) and trees for beverages (i.e. coffee, tea, Gesho, etc) are considered permanent crops but meadows and pastures are excluded.

Meher (Main) Season Crop: -any temporary crop harvested between Meskerm (September) and Yekatit (February) is considered as Meher season crop.

Belg Season Crop: - any temporary crop harvested between Megabit (March) and Pagume (August) is considered to be Belg Season Crop.

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.If in some tables figures do not add up to total it is due to rounding
- 2.Those figures designated by “*” in all tables could not be reported because of high coefficient of variation (i.e. they are less reliable). However, they are consolidated in the total estimates.
- 3.In all tables “-” indicates not reported.

PART III:

SUMMARY OF SURVEY RESULTS

By and large, agriculture in Ethiopia is subsistence. This is particularly true to the major food crops grown in the country and covered in the survey. The major food crops are produced in almost all regions of the country in spite of the variation in volume of production across the regions. The variation may be attributed to the extent of area devoted to each crop type, weather change, use of inputs, farm practice and a shift in preference for the crops grown. The items on which data is collected are the ones that are practiced by the peasant holders. The items shown in the statistical tables are fertilizers, improved seeds, pesticides and irrigation. The quantity of fertilizers and improved seeds used and the area they are applied to including pesticides and irrigation are also indicated in the statistical tables.

3.1. Fertilizer

Fertilizer is one of the major agricultural inputs that increase productivity. The application of fertilizer to crop fields in Ethiopia is gathering momentum. The volume of fertilizer used and the extent of area it covers are shown in Table 1. The total volume of fertilizer applied to area under crops is estimated to be more than 12 million quintals and the crop area to which fertilizer was applied is estimated about 8.3 million hectares. Of all the quantity of fertilizers used 1.4 million quintals was Urea & DAP, 8 million quintal was that of NPS & Urea, about 1.9 million quintal was NPS, about 500 thousand quintal was DAP, and about 428 thousand quintals was Urea. Most of the fertilizer used was applied to cereal crops (about 10.4 million quintal) of which teff accounted 3.2 million quintals, Wheat 2.4 million quintals and Maize 3.4 million quintals. The largest area to which fertilizer was applied was that of teff (about 2.4 million hectares) followed by Maize (about 1.7 thousand hectares) and wheat (nearly 1.5 million hectares) crops.

3.2. Improved Seed

Improved seeds are another input that contributes to an increase in agricultural productivity. Their application is also noticeable as more and more peasant holders aspire to have increased volume of crop production. Table 1 sheds some light on the use of improved seeds in the country. The total volume of improved seeds used in 2017/18 (2010 E.C) was estimated about 593 thousand quintals. The crop area it was applied estimated 1.4 million hectares. The larger volumes of improved seeds

used were that of wheat and maize which amounted 316 thousand and 196 thousand quintals, respectively. The largest area to which improved seeds applied was under maize and wheat estimated about 1.2 million hectares and 111 thousand hectares, respectively.

3.3. Pesticides

At times when rampant pests and weeds damage crops, the use of pesticides is indispensable. In areas where crop damage caused by pests and weeds was reported the application of pesticides is more evident in the survey results. The total pesticide applied area was estimated more than 3.9 million hectares as indicated in Table 1. The number of holders who applied it was about 5.8 million. Most of the crop area to which pesticide was applied was under teff (1.5 million hectares) and wheat (948 thousand hectares).

3.4. Irrigation

Irrigation enables to increase the frequency of crop production and alleviates water shortage caused by poor rains /dry seasons. The use of extensive irrigation is an idea fanned by many agricultural experts in the wake of the recurrent drought and famine. The survey results show that the practice of irrigation in the country has a long way to go to bring about the desired change as shown in Table 1. The total irrigated crop area in the country within the private peasant holdings was estimated around 181 thousand hectares. The farmers who practice irrigation were estimated 1.4 million. Most of the area irrigated was under maize, sorghum and teff estimated 25, 281 hectares for Maize, 24,914 hectares for sorghum and 10,400 hectares for *teff*.

3.5. Extension Package, Credit and Agricultural Advice Services

The number of holders participating in various crop extension packages was estimated to be greater than 8 million. Most of the area under the extension program was reported to be under maize, *teff* and wheat estimated to be more than 1.3 million hectares, 1.1 million hectares and more than 867 thousand hectares, respectively, as shown in Table 1. The extension package embraced about 4.8 million maize growers, about 2.6 million *teff* growers and more than 2 million wheat growers. Credit and advisory services users numbered about 2.6 million and 11.6 million holders, respectively, as shown in Table 4.

PART IV:
STATISTICAL TABLES

Table1: Number of Holders, Inputs Applied Area and Quantity of Inputs used, 2017/18

Ethiopia

Crop type	All Crop Area	All Fertilizers		Natural		DAP		
		Hectare	Quintal	Holder	Hectare	Holder	Hectare	Quintal
All	14,582,195	8,277,524	12,253,735	10,200,048	1,376,896	1,223,974	466,482	499,653
Cereals	10,232,582	6,981,097	10,357,108	5,585,631	749,786	983,300	369,754	356,947
<i>Teff</i>	3,023,284	2,377,882	3,230,514	362,252	66,320	352,472	92,771	77,487
<i>Barley</i>	951,993	633,551	651,745	800,228	106,207	169,228	46,974	46,949
<i>Wheat</i>	1,696,907	1,486,194	2,360,935	386,042	47,553	194,660	94,714	104,911
<i>Maize</i>	2,128,949	1,658,560	3,409,593	4,411,579	293,777	404,397	55,818	75,788
<i>Sorghum</i>	1,896,389	460,476	305,376	1,263,242	219,780	162,305	42,480	27,397
<i>Finger millet</i>	456,057	315,575	295,515	136,108	15,283	87,538	34,813	23,329
<i>Oats/'Aja'</i>	25,896	12,888	18,770	17,586	557	8,191	672	553
<i>Rice</i>	53,107	35,971	84,660	*	*	*	*	*
Pulse	1,598,807	448,569	528,235	2,289,881	121,150	435,355	59,446	68,535
<i>Horse/Faba beans</i>	437,106	195,220	190,275	1,022,600	65,629	137,894	22,322	23,412
<i>Field peas</i>	220,508	69,437	87,683	248,176	16,220	49,673	5,710	7,068
<i>White Haricot</i>	89,383	20,228	*	305,936	7,442	30,490	*	3,641
<i>Red Haricot beans</i>	216,804	77,463	141,178	716,140	15,443	200,500	22,576	26,958
<i>Chick peas</i>	242,704	21,463	10,579	50,109	5,763	12,908	1,076	1,144
<i>Lentils</i>	119,046	35,694	33,729	74,148	3,258	12,793	921	994
<i>Vetch/Grass peas</i>	143,086	5,618	2,532	25,286	2,946	*	*	*
<i>Soya beans</i>	38,073	5,196	3,995	12,401	*	7,273	2,236	1,850
<i>Fenugreek</i>	32,587	11,185	10,163	229,351	2,010	20,081	*	*
<i>Mung</i>	41,633	5,092	4,247	25,220	1,348	*	*	*
<i>Gibto</i>	17,877	1,973	*	*	*	-	-	-
Oil Seeds	846,494	103,957	191,655	640,570	33,258	78,707	14,276	11,839
<i>Nueg</i>	290,495	29,043	12,830	41,039	7,744	*	*	*
<i>Linseed</i>	79,045	10,274	7,043	109,525	3,177	15,242	*	*
<i>Ground nuts</i>	80,842	7,478	9,475	88,527	3,889	32,884	1,245	*
<i>Safflower</i>	7,967	3,873	17,567	63,614	1,431	*	*	*
<i>Sesame</i>	370,141	38,799	18,615	90,225	12,223	29,768	9,883	5,146
<i>Rapeseed</i>	18,005	14,491	126,123	291,767	4,793	*	*	*
Vegetables	208,986	159,711	402,814	3,872,943	40,936	105,348	6,167	12,491
<i>Lettuce</i>	145	*	*	18,650	*	-	-	-
<i>Head Cabbage</i>	6,007	4,675	10,162	314,807	2,392	8,109	*	*
<i>Ethiopian Cabbage</i>	34,128	24,978	17,734	2,238,002	21,911	32,291	509	*
<i>Tomatoes</i>	5,235	3,337	*	109,108	617	5,487	*	344
<i>Green peppers</i>	10,207	6,231	8,089	1,017,591	3,685	14,945	153	202
<i>Red papers</i>	152,753	119,999	351,158	841,257	11,930	53,218	*	*
<i>Swiss chard</i>	*	*	343	72,281	*	*	*	*
Root Crops	233,290	151,195	356,270	3,231,490	57,510	120,420	8,103	14,571
<i>Beet root</i>	2,890	2,225	2,379	321,348	1,177	*	*	*
<i>Carrot</i>	4,903	4,377	4,686	113,502	*	*	*	*
<i>Onion</i>	31,673	25,602	111,721	391,976	2,782	7,902	*	*
<i>Potatoes</i>	69,611	61,538	158,347	437,137	10,838	50,048	5,462	10,784
<i>Yam</i>	5,356	2,328	*	197,957	2,172	3,183	*	*
<i>Garlic</i>	19,412	15,104	42,946	1,213,050	5,282	11,591	*	438
<i>Taro/'Godere'</i>	45,995	20,850	7,610	1,036,750	19,194	10,382	199	341
<i>Sweet potatoes</i>	53,449	19,172	*	567,473	14,111	38,319	1,064	1,578
Other Temporary	95,015	41,785	138,477	2,322,209	24,591	38,270	1,027	1,795
Fruit Crops	104,422	33,481		2,182,515	29,546			
<i>Avocado</i>	18,021	7,343		842,781	7,182			
<i>Bananas</i>	59,298	18,950		1,212,119	16,693			
<i>Guava</i>	2,470	801		130,353	391			
<i>Lemons</i>	1,460	359		99,940	319			
<i>Mangos</i>	15,373	3,382		552,200	2,823			
<i>Oranges</i>	3,706	1,391		284,632	1,256			
<i>Papayas</i>	3,484	1,202		309,104	830			
<i>Pineapples</i>	610	53		14,122	52			
Stimulant Crops	1,019,229	206,135		3,895,721	173,885			
<i>Chat</i>	262,072	94,595		1,228,737	72,941			
<i>Coffee</i>	725,961	93,572		2,271,733	86,979			
<i>Hops/'Gesho'</i>	31,196	17,968		1,330,635	13,964			
<i>Enset</i>	197,231	135,460		2,952,191	134,387			
<i>Sugar Cane</i>	29,536	10,958		473,248	7,438			
Other Permanent	16,602	5,176		1,329,861	4,409			

(Table 1: cont'd.)

Ethiopia, 2017/18

Crop type	UREA			UREA + DAP			NPS		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	1,580,927	371,034	427,454	1,501,811	700,274	1,422,405	3,528,121	1,813,374	1,874,519
Cereals	1,190,467	317,895	346,577	1,423,973	638,111	1,163,364	3,093,748	1,588,799	1,565,480
<i>Teff</i>	391,907	112,668	111,361	594,104	231,076	349,768	1,461,681	672,171	605,791
<i>Barley</i>	105,804	15,277	13,224	280,447	64,382	117,924	557,553	210,746	208,962
<i>Wheat</i>	165,956	31,446	27,706	438,583	152,513	284,285	767,306	353,456	382,440
<i>Maize</i>	492,150	57,160	87,733	672,350	115,956	308,307	1,019,445	171,704	202,127
<i>Sorghum</i>	210,210	52,745	56,361	187,067	40,155	64,193	223,651	41,250	37,329
<i>Finger millet</i>	135,592	28,902	17,327	120,821	31,803	34,056	406,149	129,127	114,198
<i>Oats/'Aja'</i>	4,955	*	*	*	*	*	40,080	10,344	14,631
<i>Rice</i>	60,662	*	*	7,502	2,169	4,562	-	-	-
Pulse	159,802	15,436	15,164	231,834	19,059	53,568	926,885	153,065	182,282
<i>Horse/Faba beans</i>	58,659	4,097	5,600	73,604	6,553	15,542	510,349	74,751	82,555
<i>Field peas</i>	16,226	1,864	1,034	34,723	2,372	4,869	216,212	29,898	42,190
<i>White Haricot beans</i>	14,645	495	1,086	19,913	*	5,291	34,100	*	*
<i>Red Haricot beans</i>	33,374	2,256	3,500	101,579	6,576	23,706	182,632	16,509	25,915
<i>Chick peas</i>	6,382	*	*	4,478	*	1,298	12,525	*	*
<i>Lentils</i>	29,559	3,473	1,755	14,546	*	*	83,848	13,221	11,241
<i>Veitch/Grass peas</i>	*	*	*	*	*	*	*	*	*
<i>Soya beans</i>	*	*	*	*	*	*	*	*	*
<i>Fenugreek</i>	13,659	*	747	11,518	*	*	32,007	2,610	2,351
<i>Mung bean/'Masho'</i>	4,703	*	*	*	*	*	8,394	1,540	1,863
<i>Gibto</i>	-	-	-	*	-	*	4,022	*	*
Oil Seeds	68,901	7,179	7,585	40,303	8,838	8,565	159,128	26,307	17,994
<i>Nueg</i>	6,070	*	*	*	*	*	34,235	17,893	3,538
<i>Linseed</i>	6,958	*	421	11,807	129	863	31,191	3,343	2,310
<i>Ground nuts</i>	19,068	*	1,940	*	*	508	11,047	*	1,190
<i>Safflower</i>	10,321	256	*	*	*	*	13,655	313	1,445
<i>Sesame</i>	17,007	*	2,756	11,036	8,196	5,023	10,550	*	*
<i>Rapeseed</i>	12,246	*	1,297	*	*	*	67,627	2,233	7,820
Vegetables	269,390	17,201	14,413	97,275	10,935	23,620	194,189	12,713	22,438
<i>Lettuce</i>	*	*	*	-	-	-	-	-	-
<i>Head Cabbage</i>	21,331	202	619	3,996	*	*	24,391	720	1,201
<i>Ethiopian Cabbage</i>	34,413	435	833	26,332	409	2,056	45,293	635	2,626
<i>Tomatoes</i>	8,778	*	746	5,589	*	*	6,938	*	154
<i>Green peppers</i>	36,826	*	1,715	10,548	*	*	30,403	*	1,095
<i>Red papers</i>	184,982	15,006	10,480	61,662	9,225	14,412	102,184	10,721	17,356
<i>Swiss chard</i>	*	*	*	*	*	*	*	*	*
Root Crops	223,784	5,232	11,024	129,148	11,423	72,601	382,142	23,521	51,251
<i>Beet root</i>	11,753	*	263	*	*	*	15,630	*	*
<i>Carrot</i>	4,475	*	*	*	*	*	24,772	*	*
<i>Onion</i>	38,695	807	1,787	9,281	732	*	49,458	*	*
<i>Potatoes</i>	31,741	1,205	2,377	68,197	9,809	41,661	171,992	13,650	26,135
<i>Yam</i>	*	*	*	*	*	*	*	*	*
<i>Garlic</i>	107,352	976	2,613	22,163	114	*	119,148	4,038	10,288
<i>Taro/'Godere'</i>	18,413	535	1,563	13,404	279	2,389	16,907	*	844
<i>Sweet potatoes</i>	24,134	1,405	*	21,018	378	*	23,995	408	*
Other Temporary	61,796	1,591	8,441	48,093	902	*	114,345	3,747	10,740
Fruit Crops									
<i>Avocado</i>									
<i>Bananas</i>									
<i>Guava</i>									
<i>Lemons</i>									
<i>Mangos</i>									
<i>Oranges</i>									
<i>Papayas</i>									
<i>Pineapples</i>									
Stimulant Crops									
<i>Chat</i>									
<i>Coffee</i>									
<i>Hops/'Gesho'</i>									
Enset									
Sugar Cane									
Other Permanent									

(Table 1: cont'd.)

Ethiopia 2017/18

Crop type	NPS & UREA			INDIGENOUS SEED			IMPROVED SEED		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	5,527,839	3,549,465	8,029,703	16,902,221	13,159,989	9,047,656	4,546,186	1,422,206	592,765
Cereals	5,384,255	3,316,752	6,924,741	14,406,824	8,869,576	7,126,358	4,070,938	1,363,006	578,896
Teff	2,466,356	1,202,876	2,086,106	6,682,782	2,967,219	1,453,118	177,352	56,064	19,854
Barley	742,153	189,966	264,686	3,471,498	933,479	1,500,825	65,345	18,515	45,103
Wheat	1,939,387	806,513	1,561,593	3,995,555	1,585,519	2,833,886	334,180	111,388	195,955
Maize	2,999,552	964,144	2,735,639	8,460,378	959,132	511,957	3,709,028	1,169,817	315,689
Sorghum	334,190	64,065	120,096	5,347,336	1,890,584	465,093	28,632	5,805	1,319
Finger millet	297,443	75,648	106,606	1,759,334	454,998	190,744	*	*	*
Oats/'Aja'	17,755	1,181	3,215	203,545	25,768	61,303	*	*	*
Rice	48,979	*	*	161,174	52,877	109,432	*	*	*
Pulse	654,071	80,413	208,686	8,281,748	1,586,537	1,685,902	71,993	12,270	13,121
Horse/Faba beans	261,951	21,868	63,165	3,673,762	435,386	622,831	10,615	*	*
Field peas	134,074	13,373	32,521	1,804,549	220,093	271,577	3,307	*	*
White Haricot	27,627	*	*	1,009,607	89,298	83,076	*	*	*
Red Haricot beans	186,025	14,103	61,099	2,581,522	210,740	169,911	45,530	6,064	4,546
Chick peas	17,850	4,661	4,399	679,982	239,151	207,011	9,493	*	*
Lentils	74,268	13,593	18,150	873,225	119,046	116,067	-	-	-
Vetch/Grass peas	*	*	*	465,366	143,086	96,063	-	-	-
Soya beans	*	*	*	145,990	37,713	67,189	*	*	*
Fenugreek	43,358	3,957	4,214	637,281	32,570	19,338	*	*	*
Mung bean/'Masho'	7,518	*	825	325,150	41,632	28,688	*	*	*
Gibto	*	*	*	47,716	17,822	4,150	*	*	*
Oil Seeds	253,299	14,099	145,671	3,343,323	842,595	235,396	10,498	3,899	*
Nueg	19,194	3,003	7,727	958,213	290,495	47,798	*	-	*
Linseed	20,704	673	1,088	861,567	78,532	39,746	*	*	*
Ground nuts	*	*	*	520,916	80,815	97,039	*	*	*
Safflower	31,124	1,393	14,313	239,395	7,941	1,276	*	*	*
Sesame	*	*	*	733,859	366,855	41,826	4,506	3,286	293
Rapeseed	168,081	7,002	116,420	686,566	17,957	7,712	*	*	-
Vegetables	610,240	71,760	329,853	6,641,274	205,891	-	87,190	3,095	-
Lettuce	*	*	*	37,373	144	-	*	*	-
Head Cabbage	36,750	*	5,076	484,685	4,988	-	54,110	1,019	-
Ethiopian Cabbage	73,011	1,079	9,365	3,310,366	34,099	-	7,674	*	-
Tomatoes	11,261	*	*	257,647	3,670	-	13,565	1,565	-
Green peppers	47,718	816	3,781	1,656,464	10,192	-	6,383	16	-
Red papers	480,431	68,091	300,634	2,295,403	152,293	-	*	*	-
Swiss chard	*	*	79	111,420	*	-	5,816	7	-
Root Crops	580,200	45,407	206,823	6,146,532	225,971	-	121,620	7,319	-
Beet root	17,724	*	*	454,596	2,228	-	43,564	662	-
Carrot	17,220	*	*	173,783	2,984	-	32,882	*	-
Onion	138,579	17,224	95,409	854,907	29,036	-	28,956	2,637	-
Potatoes	193,786	20,573	77,389	1,116,695	68,272	-	*	*	-
Yam	*	*	*	343,589	5,355	-	*	*	-
Garlic	229,519	4,533	25,077	2,247,773	18,712	-	12,031	*	-
Taro/'Godere'	22,836	263	2,472	1,854,192	45,969	-	4,816	*	-
Sweet potatoes	40,634	1,807	2,555	1,403,485	53,415	-	*	*	-
Other Temporary	238,486	9,926	91,885	4,175,975	91,298	-	34,561	*	-
Fruit Crops				4,707,165	102,716				
Avocado				1,774,120	17,852				
Bananas				2,820,785	59,147				
Guava				375,376	1,882				
Lemons				295,733	1,392				
Mangos				1,696,206	14,972				
Oranges				683,473	3,634				
Papayas				863,569	3,227				
Pineapples				55,365	610				
Stimulant Crops	241,445	7,835	83,970	7,943,141	993,184		365,973	26,045	-
Chat				2,891,458	261,940				
Coffee				4,819,858	700,295		323,784	25,667	-
Hops/'Gesho'				2,576,635	30,950				
Enset				4,309,483	196,375				
Sugar Cane				1,090,575	29,536				
Other Permanent				2,747,653	16,311				

(Table 1: Cont'd)

Ethiopia, 2017/18

Crop type	PESTICIDE		IRRIGATION		EXTENSION PACKAGE	
	Holder	Hectare	Holder	Hectare	Holder	Hectare
All	5,848,013	3,859,743	1,403,052	181,281	8,114,595	4,504,025
Cereals	5,362,880	3,503,550	406,671	69,100	7,626,572	4,028,094
<i>Teff</i>	2,953,899	1,482,632	44,737	10,400	2,551,996	1,082,650
<i>Barley</i>	783,615	277,355	14,424	1,375	927,741	244,745
<i>Wheat</i>	1,854,336	948,310	25,826	4,952	2,009,881	867,788
<i>Maize</i>	1,053,872	270,275	289,534	25,281	4,758,027	1,317,374
<i>Sorghum</i>	751,814	345,945	123,730	24,914	1,022,697	306,101
<i>Finger millet</i>	526,746	157,223	4,639	673	526,548	180,822
<i>Oats/'Aja'</i>	70,104	14,835	*	*	63,748	12,478
<i>Rice</i>	25,740	6,975	*	*	58,239	16,135
Pulse	742,272	204,210	67,172	4,232	1,677,639	235,803
<i>Horse/Faba beans</i>	285,934	55,616	8,499	*	712,413	90,006
<i>Field peas</i>	99,114	15,889	4,813	*	255,133	30,194
<i>White Haricot beans</i>	28,489	1,796	15,565	*	124,455	5,745
<i>Red Haricot beans</i>	93,531	14,470	22,175	1,702	553,258	52,009
<i>Chick peas</i>	64,495	43,213	*	*	56,450	15,096
<i>Lentils</i>	142,044	37,146	*	*	103,212	14,185
<i>Vetch/Grass peas</i>	*	5,710	*	*	14,699	*
<i>Soya beans</i>	*	*	*	*	12,700	4,127
<i>Fenugreek</i>	15,522	2,170	6,974	*	93,267	*
<i>Mung bean/'Masho'</i>	113,377	19,153	*	*	73,692	8,988
<i>Gibio</i>	*	*	*	*	10,387	*
Oil Seeds	152,103	36,422	19,545	699	496,153	56,898
<i>Nueg</i>	13,392	*	*	*	34,335	3,534
<i>Linseed</i>	39,096	8,671	7,585	*	58,428	4,130
<i>Ground nuts</i>	23,107	6,714	4,855	271	96,968	9,998
<i>Safflower</i>	9,382	*	*	*	50,905	2,105
<i>Sesame</i>	58,995	17,804	*	*	97,257	30,263
<i>Rapeseed</i>	18,448	*	*	*	185,067	6,868
Vegetables	187,070	13,759	246,255	6,357	754,371	66,430
<i>Lettuce</i>	*	*	3,281	*	*	*
<i>Head Cabbage</i>	33,470	1,794	23,187	*	55,147	1,013
<i>Ethiopian Cabbage</i>	44,537	577	45,451	574	167,434	1,829
<i>Tomatoes</i>	17,032	1,695	44,318	2,559	36,272	2,674
<i>Green peppers</i>	21,310	*	88,444	1,108	94,423	1,121
<i>Red papers</i>	90,882	9,449	74,461	1,497	456,183	59,697
<i>Swiss chard</i>	*	*	6,364	5	15,324	*
Root Crops	410,090	60,095	251,350	21,227	903,315	58,561
<i>Beet root</i>	9,565	*	7,922	*	45,867	878
<i>Carrot</i>	35,987	*	8,384	*	41,656	*
<i>Onion</i>	113,424	20,425	121,920	16,208	160,472	14,542
<i>Potatoes</i>	167,093	30,044	30,890	1,882	258,360	27,980
<i>Yam</i>	-	-	-	-	11,851	157
<i>Garlic</i>	113,657	6,297	81,124	1,669	286,794	6,515
<i>Taro/'Godere'</i>	3,699	*	*	*	82,350	1,641
<i>Sweet potatoes</i>	7,251	*	39,006	*	149,650	5,339
Other Temporary	89,572	*	104,630	*	411,687	12,781
Fruit Crops	39,452	596	484,232	14,376	305,243	4,687
<i>Avocado</i>	3,050	12	55,930	334	54,225	245
<i>Bananas</i>	8,166	61	214,503	*	111,340	2,440
<i>Guava</i>	*	*	60,268	701	29,407	*
<i>Lemons</i>	5,228	*	74,693	663	19,919	83
<i>Mangos</i>	18,532	*	188,789	1,438	115,368	841
<i>Oranges</i>	7,439	15	120,223	1,296	41,143	157
<i>Papayas</i>	6,013	*	117,398	763	55,047	435
<i>Pineapples</i>	-	-	*	-	*	*
Stimulant Crops	315,092	27,552	841,133	49,452	923,278	36,357
<i>Chat</i>	231,937	18,453	322,486	34,102	407,183	9,398
<i>Coffee</i>	63,582	7,850	324,477	10,789	420,190	22,562
<i>Hops/'Gesho'</i>	61,323	1,249	430,680	4,561	228,839	4,397
Enset	18,136	769	43,644	893		
Sugar Cane	8,588	*	94,660	7,319	32,406	*
Other Permanent	11,582	*	138,074	1,152	137,149	809

Table1.1: Number of Holders, Inputs Applied Area and Quantity of Inputs used, 2017/18

Tigray Region

Crop type	All Crop Area	All Fertilizers		Natural		DAP		
		Hectare	Quintal	Holder	Hectare	Holder	Hectare	Quintal
All	958,238	568,852	553,417	560,046	111,063	138,791	88,123	56,902
Cereals	769,671	528,985	517,465	451,603	96,774	127,071	78,987	51,211
<i>Teff</i>	167,749	130,847	159,451	30,189	4,387	60,930	24,882	14,017
<i>Barley</i>	94,725	80,239	102,714	87,393	12,712	17,843	3,872	4,172
<i>Wheat</i>	107,930	94,418	113,031	40,318	8,311	19,733	3,339	3,142
<i>Maize</i>	62,162	57,037	38,008	351,538	27,958	26,575	2,632	2,085
<i>Sorghum</i>	254,656	100,847	55,452	139,471	36,663	54,173	21,841	13,068
<i>Finger millet</i>	82,022	65,584	48,791	37,070	6,742	49,574	22,421	14,726
<i>Oats/'Aja'</i>	*	*	*	-	-	-	-	-
<i>Rice</i>	*	-	-	-	-	-	-	-
Pulse	37,231	11,883	9,888	95,948	4,996	11,649	664	609
<i>Horse/Faba beans</i>	10,526	5,572	4,563	65,309	2,588	8,762	*	426
<i>Field peas</i>	5,308	2,817	3,132	9,034	584	*	*	*
<i>White Haricot</i>	2,104	331	*	6,915	176	*	*	*
<i>Red Haricot beans</i>	1,228	*	*	*	*	-	-	-
<i>Chick peas</i>	6,846	831	*	9,366	731	*	*	*
<i>Lentils</i>	5,690	1,263	881	7,853	*	*	*	*
<i>Vetch/Grass peas</i>	5,130	545	*	4,765	422	-	-	-
<i>Soya beans</i>	*	-	-	-	-	-	-	-
<i>Fenugreek</i>	368	*	*	7,867	*	-	-	-
<i>Mung bean/'Masho'</i>	-	-	-	-	-	-	-	-
<i>Gibto</i>	-	-	-	-	-	-	-	-
Oil Seeds	134,190	20,988	10,134	24,398	5,263	12,790	7,844	3,849
<i>Nueg</i>	5,697	98	*	4,444	86	-	-	-
<i>Linseed</i>	5,199	371	*	3,160	*	*	*	*
<i>Ground nuts</i>	*	*	-	*	*	-	-	-
<i>Safflower</i>	*	*	*	*	*	-	-	-
<i>Sesame</i>	122,325	20,284	8,945	11,691	4,748	12,300	7,757	3,767
<i>Rapeseed</i>	*	*	*	*	*	-	-	-
Vegetables	3,208	2,215	3,227	171,663	1,269	16,556	277	699
<i>Lettuce</i>	*	*	*	*	*	-	-	-
<i>Head Cabbage</i>	*	*	*	*	*	*	*	*
<i>Ethiopian Cabbage</i>	13	*	*	*	*	*	*	*
<i>Tomatoes</i>	769	*	*	24,103	*	*	*	*
<i>Green peppers</i>	689	234	496	29,628	85	2,759	*	*
<i>Red papers</i>	1,623	1,284	814	134,503	996	13,537	182	400
<i>Swiss chard</i>	16	9	44	*	*	-	-	-
Root Crops	1,646	1,392	7,613	65,613	267	5,551	*	*
<i>Beet root</i>	*	*	*	-	-	-	-	-
<i>Carrot</i>	*	*	*	-	-	-	-	-
<i>Onion</i>	*	*	*	5,489	33	*	*	*
<i>Potatoes</i>	547	533	*	11,730	88	*	*	*
<i>Yam</i>	-	-	-	-	-	-	-	-
<i>Garlic</i>	541	414	*	56,876	145	3,283	*	*
<i>Taro/'Godere'</i>	-	-	-	-	-	-	-	-
<i>Sweet potatoes</i>	-	-	-	-	-	-	-	-
Other Temporary	578	*	*	24,880	161	*	*	*
Fruit Crops	*	243		25,090	108			
<i>Avocado</i>	*	*		*	*			
<i>Bananas</i>	*	*		2,839	*			
<i>Guava</i>	402	163		7,975	54			
<i>Lemons</i>	120	*		*	*			
<i>Mangos</i>	*	*		7,401	*			
<i>Oranges</i>	*	*		4,928	*			
<i>Papayas</i>	*	4		4,531	4			
<i>Pineapples</i>	-	-		-	-			
Stimulant Crops	4,080	1,304		78,236	885			
<i>Chat</i>	*	*		*	*			
<i>Coffee</i>	*	8		7,121	6			
<i>Hops/'Gesho'</i>	2,385	1,104		76,382	687			
Enset	-	-		-	-			
Sugar Cane	*	-		-	-			
Other Permanent	6,211	*		36,221	*			

(Table 1.1: cont'd.)

Tigray Region, 2017/18

Crop type	UREA			UREA + DAP			NPS		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	158,553	42,853	*	293,769	185,179	253,503	61,511	25,890	23,554
Cereals	144,525	41,155	*	284,941	174,989	236,135	49,620	23,363	20,843
Teff	50,713	9,158	*	151,674	63,361	70,898	14,241	3,489	3,247
Barley	19,512	3,329	2,586	80,639	20,172	47,703	27,107	9,782	8,755
Wheat	18,147	3,956	2,502	95,284	27,368	39,896	26,730	7,700	7,341
Maize	52,335	4,773	4,345	112,854	18,251	27,277	9,487	*	748
Sorghum	49,628	14,090	8,973	64,782	22,947	26,692	*	*	*
Finger millet	33,842	5,849	3,927	86,136	22,883	23,665	*	*	*
Oats/'Aja'	-	-	-	*	*	*	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulse	13,497	1,342	933	20,815	1,454	3,314	*	*	*
Horse/Faba beans	8,230	*	*	13,948	963	*	4,647	417	269
Field peas	1,873	*	*	*	*	*	*	*	*
White Haricot beans	*	*	*	*	*	*	-	-	-
Red Haricot beans	*	*	*	*	*	*	-	-	-
Chick peas	*	*	*	*	*	*	-	-	-
Lentils	*	*	*	*	*	*	*	*	*
Veich/Grass peas	-	-	-	*	*	*	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	*	*	*	-	-	-	*	*	*
Mung bean/'Masho'	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	*	*	*	12,376	7,661	5,611	*	*	*
Nueg	*	*	*	*	*	*	-	-	-
Linseed	-	-	-	*	*	*	*	*	*
Ground nuts	-	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	*	*	*	8,533	7,618	4,826	*	*	*
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	15,572	77	204	16,268	*	*	*	*	*
Lettuce	*	*	*	-	-	-	-	-	-
Head Cabbage	-	-	-	*	*	*	*	*	*
Ethiopian Cabbage	-	-	-	-	-	-	-	-	-
Tomatoes	*	*	*	*	*	*	*	*	*
Green peppers	3,067	*	*	3,785	*	110	*	*	*
Red papers	9,227	36	87	10,706	66	309	-	-	-
Swiss chard	*	*	*	*	*	*	*	*	*
Root Crops	9,868	*	271	8,497	*	*	7,568	*	*
Beet root	-	-	-	*	*	*	-	-	-
Carrot	*	*	*	*	*	*	-	-	-
Onion	*	*	*	*	*	*	*	*	*
Potatoes	*	*	*	*	*	*	*	*	*
Yam	-	-	-	-	-	-	-	-	-
Garlic	7,482	*	*	6,400	*	*	4,057	*	*
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	*	*	*	-	-	-
Fruit Crops									
Avocado									
Bananas									
Guava									
Lemons									
Mangos									
Oranges									
Papayas									
Pineapples									
Stimulant Crops									
Chat									
Coffee									
Hops/'Gesho'									
Enset									
Sugar Cane									
Other Permanent									

(Table 1.1: cont'd.)

Tigray Region, 2017/18

Crop type	NPS & UREA			INDIGENOUS SEED			IMPROVED SEED		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	170,245	115,744	155,954	967,797	938,093	527,570	121,275	20,145	18,726
Cereals	169,267	113,718	147,792	933,892	753,904	466,856	68,605	15,767	18,358
Teff	85,978	25,570	32,138	442,268	163,812	63,919	18,886	3,937	1,519
Barley	95,665	30,372	39,498	328,712	94,011	135,275	*	*	*
Wheat	114,832	43,743	60,150	289,398	100,668	145,530	37,760	7,262	15,042
Maize	45,150	2,350	3,553	656,937	60,647	29,502	8,758	1,514	461
Sorghum	30,663	4,953	6,439	509,001	252,377	63,383	*	2,279	543
Finger millet	22,689	*	*	272,864	81,961	29,140	*	*	*
Oats/'Aja'	*	*	*	*	*	*	-	-	-
Rice	-	-	-	*	*	*	-	-	-
Pulse	15,422	1,297	3,127	333,206	37,215	41,380	*	*	*
Horse/Faba beans	11,167	630	1,433	190,867	10,510	14,239	*	*	*
Field peas	*	*	*	52,918	5,308	7,664	-	-	-
White Haricot	-	-	-	25,238	2,104	342	-	-	-
Red Haricot beans	-	-	-	9,839	1,228	113	-	-	-
Chick peas	-	-	-	39,454	6,846	3,994	-	-	-
Lentils	*	*	*	61,411	5,690	9,019	-	-	-
Vetch/Grass peas	*	*	*	30,984	5,130	5,287	-	-	-
Soya beans	-	-	-	*	*	*	-	-	-
Fenugreek	*	*	*	25,802	368	*	-	-	-
Mung bean/'Masho'	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	*	*	*	246,099	130,904	19,333	4,506	3,286	293
Nueg	*	*	*	64,339	5,697	2,733	-	-	-
Linseed	-	-	-	52,244	5,199	1,291	-	-	-
Ground nuts	-	-	-	*	*	*	-	-	-
Safflower	*	*	*	*	*	*	-	-	-
Sesame	-	-	-	143,541	119,040	14,203	4,506	3,286	293
Rapeseed	*	*	*	*	*	*	-	-	-
Vegetables	6,457	*	472	281,113	3,156	-	6,492	*	-
Lettuce	-	-	-	4,520	*	-	*	*	-
Head Cabbage	*	*	*	3,925	*	-	*	*	-
Ethiopian Cabbage	-	-	-	4,406	11	-	*	*	-
Tomatoes	*	*	*	43,470	769	-	*	*	-
Green peppers	*	*	*	61,077	684	-	2,798	*	-
Red papers	*	*	*	200,969	1,606	-	*	*	-
Swiss chard	*	*	*	9,445	14	-	*	*	-
Root Crops	11,833	387	2,422	135,923	1,568	-	1,765	*	-
Beet root	-	-	-	*	*	-	-	-	-
Carrot	-	-	-	*	*	-	*	*	-
Onion	*	*	*	18,135	*	-	*	*	-
Potatoes	*	*	*	23,156	530	-	*	*	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	9,545	*	*	113,935	535	-	*	*	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other Temporary	*	*	*	52,349	578	-	-	-	-
Fruit Crops				58,910	*				
Avocado				*	*				
Bananas				6,904	*				
Guava				16,184	90				
Lemons				16,434	77				
Mangos				9,021	*				
Oranges				16,086	*				
Papayas				15,982	68				
Pineapples				-	-				
Stimulant Crops	6,508	*	*	213,164	3,678		35,589	*	-
Chat				*	*				
Coffee				14,935	17		5,952	*	-
Hops/'Gesho'				203,273	2,181				
Enset				-	-				
Sugar Cane				*	*				
Other Permanent				134,987	6,128				

(Table 1.1: Cont'd)

Tigray Region, 2017/18

Crop type	PESTICIDE		IRRIGATION		EXTENSION PACKAGE	
	Holder	Hectare	Holder	Hectare	Holder	Hectare
All	319,261	193,794	182,993	18,686	473,233	343,991
Cereals	313,055	190,052	49,043	13,159	452,227	316,882
<i>Teff</i>	159,037	60,966	11,595	2,701	215,546	87,645
<i>Barley</i>	34,840	6,759	*	*	72,854	19,746
<i>Wheat</i>	48,500	12,749	11,143	2,638	113,974	34,267
<i>Maize</i>	86,584	9,450	20,792	1,138	161,600	24,265
<i>Sorghum</i>	156,607	81,906	*	*	178,642	97,370
<i>Finger millet</i>	56,709	18,222	*	*	141,129	53,585
<i>Oats/'Aja'</i>	-	-	-	-	*	*
<i>Rice</i>	-	-	-	-	-	-
Pulse	18,989	1,568	6,379	260	42,144	4,275
<i>Horse/Faba beans</i>	13,862	849	*	*	23,394	1,434
<i>Field peas</i>	*	*	*	*	*	*
<i>White Haricot beans</i>	*	*	-	-	3,918	217
<i>Red Haricot beans</i>	*	*	-	-	*	*
<i>Chick peas</i>	*	*	*	*	2,417	*
<i>Lentils</i>	*	*	*	*	4,219	*
<i>Vetch/Grass peas</i>	*	*	*	*	*	*
<i>Soya beans</i>	-	-	-	-	-	-
<i>Fenugreek</i>	-	-	*	12	*	*
<i>Mung bean/'Masho'</i>	-	-	-	-	-	-
<i>Gibto</i>	-	-	-	-	-	-
Oil Seeds	6,693	*	*	*	36,422	20,583
<i>Nueg</i>	*	*	-	-	*	*
<i>Linseed</i>	-	-	*	*	*	*
<i>Ground nuts</i>	-	-	-	-	*	*
<i>Safflower</i>	*	*	-	-	-	-
<i>Sesame</i>	*	*	-	-	23,612	19,618
<i>Rapeseed</i>	*	*	*	*	*	*
Vegetables	9,741	159	48,944	1,214	44,206	907
<i>Lettuce</i>	-	-	3,281	*	-	-
<i>Head Cabbage</i>	-	-	*	*	*	*
<i>Ethiopian Cabbage</i>	*	*	*	*	*	*
<i>Tomatoes</i>	3,992	*	12,100	*	8,220	*
<i>Green peppers</i>	*	*	17,983	451	6,508	*
<i>Red papers</i>	2,652	*	18,910	137	32,459	273
<i>Swiss chard</i>	*	*	*	*	*	*
Root Crops	6,528	*	26,910	651	16,089	*
<i>Beet root</i>	-	-	*	*	-	-
<i>Carrot</i>	-	-	*	*	-	-
<i>Onion</i>	*	*	7,614	*	*	*
<i>Potatoes</i>	*	*	*	*	*	*
<i>Yam</i>	-	-	-	-	-	-
<i>Garlic</i>	4,434	*	18,969	*	12,150	*
<i>Taro/'Godere'</i>	-	-	-	-	-	-
<i>Sweet potatoes</i>	-	-	-	-	-	-
Other Temporary	*	*	3,372	*	3,420	*
Fruit Crops	*	*	45,270	*	18,303	224
<i>Avocado</i>	-	-	2,817	*	*	*
<i>Bananas</i>	*	*	5,155	*	-	-
<i>Guava</i>	-	-	22,763	*	10,309	*
<i>Lemons</i>	-	-	6,386	37	3,289	*
<i>Mangos</i>	*	*	14,526	*	7,062	*
<i>Oranges</i>	*	*	10,929	*	4,987	*
<i>Papayas</i>	-	-	8,003	*	2,805	*
<i>Pineapples</i>	-	-	-	-	-	-
Stimulant Crops	*	*	101,767	1,969	27,250	*
<i>Chat</i>	*	*	*	*	-	-
<i>Coffee</i>	-	-	15,375	*	5,432	*
<i>Hops/'Gesho'</i>	*	*	97,135	849	26,950	*
Enset	-	-	-	-	-	-
Sugar Cane	-	-	*	*	-	-
Other Permanent	*	*	19,395	*	7,425	*

Table1.2: Number of Holders, Inputs Applied Area and Quantity of Inputs used, 2017/18

Afar Region

Crop type	All Crop Area	All Fertilizers		Natural		DAP		
		Hectare	Quintal	Holder	Hectare	Holder	Hectare	Quintal
All	9,778	*	*	1,075	*	*	*	*
Cereals	6,962	*	*	*	*	*	*	*
Teff	*	*	*	*	*	*	*	*
Barley	*	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	4,308	*	*	*	*	*	*	*
Sorghum	*	*	*	*	*	*	*	*
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	*	*	*	*	*	*	*	*
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
White Haricot	*	*	-	*	*	-	-	-
Red Haricot beans	*	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung bean/'Masho'	*	*	*	*	*	*	*	*
Gibto	-	-	-	-	-	-	-	-
Oil Seeds	*	*	*	*	*	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	*	*	*	-	-	-	-	-
Sesame	*	*	*	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	*	*	*	*	*	*	*	*
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	*	*	-	*	*	-	-	-
Green peppers	*	*	*	*	*	*	*	*
Red papers	*	*	-	*	*	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root Crops	*	*	-	*	*	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	*	*	-	*	*	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	*	-	-	-	-	-	-	-
Other Temporary	*	-	-	-	-	-	-	-
Fruit Crops	8	*	-	*	*	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	*	*	-	*	*	-	-	-
Guava	*	-	-	-	-	-	-	-
Lemons	*	-	-	-	-	-	-	-
Mangos	*	*	-	*	*	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	*	*	-	*	*	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Stimulant Crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Hops/'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-	-	-
Other Permanent	321	-	-	-	-	-	-	-

(Table 1.2: cont'd.)

Afar Region, 2017/18

Crop type	UREA			UREA + DAP			NPS		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	*	*	*	*	*	*	-	-	-
Cereals	*	*	*	*	*	*	-	-	-
Teff	*	*	*	*	*	*	-	-	-
Barley	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	*	*	-	-	-
Sorghum	*	*	*	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulse	*	*	*	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
White Haricot beans	-	-	-	-	-	-	-	-	-
Red Haricot beans	-	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Veich/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/'Masho'	*	*	*	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	*	*	*	*	*	*	-	-	-
Nueg	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-	-
Safflower	*	*	*	-	-	-	-	-	-
Sesame	*	*	*	*	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root Crops	-	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-
Fruit Crops									
Avocado									
Bananas									
Guava									
Lemons									
Mangos									
Oranges									
Papayas									
Pineapples									
Stimulant Crops									
Chat									
Coffee									
Hops/'Gesho'									
Enset									
Sugar Cane									
Other Permanent									

(Table 1.2: cont'd.)

Afar Region, 2017/18

Crop type	NPS & UREA			INDIGENOUS SEED			IMPROVED SEED		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	-	-	-	11,266	8,743	2,013	2,395	*	241
Cereals	-	-	-	6,682	5,931	1,595	*	*	241
Teff	-	-	-	*	*	*	-	-	-
Barley	-	-	-	*	*	*	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	-	-	-	4,389	3,278	1,142	*	*	241
Sorghum	-	-	-	*	*	*	-	-	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulse	-	-	-	*	*	*	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
White Haricot	-	-	-	*	*	*	-	-	-
Red Haricot beans	-	-	-	*	*	*	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/'Masho'	-	-	-	*	*	*	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	-	-	-	*	*	*	-	-	-
Nueg	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-	-
Safflower	-	-	-	*	*	*	-	-	-
Sesame	-	-	-	*	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	-	-	-	1,483	*	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	877	*	-	-	-	-
Green peppers	-	-	-	*	*	-	-	-	-
Red papers	-	-	-	*	*	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root Crops	-	-	-	818	*	-	-	-	-
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	*	*	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	*	*	-	-	-	-
Other Temporary	-	-	-	*	*	-	-	-	-
Fruit Crops	-	-	-	386	*	-	-	-	-
Avocado	-	-	-	-	-	-	-	-	-
Bananas	-	-	-	*	*	-	-	-	-
Guava	-	-	-	*	*	-	-	-	-
Lemons	-	-	-	*	*	-	-	-	-
Mangos	-	-	-	*	*	-	-	-	-
Oranges	-	-	-	-	-	-	-	-	-
Papayas	-	-	-	*	*	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	-	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-
Hops/'Gesho'	-	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	5,789	318	-	-	-	-

(Table 1.2: Cont'd) Afar Region, 2017/18

Crop type	PESTICIDE		IRRIGATION		EXTENSION PACKAGE	
	Holder	Hectare	Holder	Hectare	Holder	Hectare
All	*	*	7,323	4,744	*	*
Cereals	*	*	4,503	4,050	*	*
Teff	*	*	-	-	-	-
Barley	-	-	*	*	-	-
Wheat	-	-	-	-	-	-
Maize	*	*	4,395	4,042	*	*
Sorghum	*	*	-	-	-	-
Finger millet	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulse	*	*	*	*	-	-
Horse/Faba beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
White Haricot beans	-	-	-	-	-	-
Red Haricot beans	-	-	*	*	-	-
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Mung bean/'Masho'	*	*	-	-	-	-
Gibto	-	-	-	-	-	-
Oil Seeds	*	*	*	*	-	-
Nueg	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-
Safflower	-	-	-	-	-	-
Sesame	*	*	*	*	-	-
Rapeseed	-	-	-	-	-	-
Vegetables	-	-	1,156	*	*	*
Lettuce	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-
Tomatoes	-	-	659	*	*	*
Green peppers	-	-	*	*	*	*
Red papers	-	-	*	*	-	-
Swiss chard	-	-	-	-	-	-
Root Crops	-	-	*	*	*	*
Beet root	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	-	-	*	*	-	-
Potatoes	-	-	-	-	-	-
Yam	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-
Sweet potatoes	-	-	*	*	*	*
Other Temporary	-	-	*	*	-	-
Fruit Crops	-	-	612	8	-	-
Avocado	-	-	-	-	-	-
Bananas	-	-	*	*	-	-
Guava	-	-	*	*	-	-
Lemons	-	-	*	*	-	-
Mangos	-	-	*	*	-	-
Oranges	-	-	-	-	-	-
Papayas	-	-	*	*	-	-
Pineapples	-	-	-	-	-	-
Stimulant Crops	-	-	-	-	-	-
Chat	-	-	-	-	-	-
Coffee	-	-	-	-	-	-
Hops/'Geshe'	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-
Other Permanent	-	-	3,729	284	-	-

Table1.3: Number of Holders, Inputs Applied Area and Quantity of Inputs used, 2017/18

Amahara Region

Crop type	All Crop Area	All Fertilizers		Natural		DAP		
		Hectare	Quintal	Holder	Hectare	Holder	Hectare	Quintal
All	4,661,433	2,762,936	4,747,291	2,954,179	373,585	149,148	55,417	35,930
Cereals	3,499,684	2,474,931	4,037,598	1,869,309	268,832	129,752	49,654	31,636
Teff	1,138,031	926,340	1,330,260	134,386	23,505	58,012	21,589	*
Barley	323,936	190,444	181,754	406,473	57,770	13,737	1,920	*
Wheat	554,662	466,961	879,508	189,902	20,019	22,889	4,983	3,954
Maize	520,117	485,204	1,270,593	1,335,633	82,067	21,457	*	*
Sorghum	672,492	180,515	107,755	382,880	79,659	40,424	*	4,605
Finger millet	246,523	196,022	206,965	46,108	5,488	*	*	*
Oats/'Aja'	4,095	1,138	982	*	*	*	*	*
Rice	39,830	28,306	59,781	*	*	-	-	-
Pulse	677,843	113,455	129,855	592,662	47,357	25,343	1,652	*
Horse/Faba beans	150,935	52,469	58,282	352,633	29,714	-	-	-
Field peas	81,168	16,968	28,698	94,096	4,987	*	*	*
White Haricot	38,041	4,245	1,806	45,688	2,575	-	-	-
Red Haricot beans	29,609	4,193	*	56,563	1,821	*	*	*
Chick peas	132,281	6,716	1,797	12,021	2,886	*	*	*
Lentils	69,988	14,848	13,218	35,313	1,701	*	*	*
Vetch/Grass peas	97,273	3,393	*	11,415	1,373	*	*	*
Soya beans	*	*	*	-	-	-	-	-
Fenugreek	15,669	5,386	5,131	84,782	945	*	*	*
Mung bean/'Masho'	31,671	2,603	1,141	23,295	1,178	*	*	*
Gibto	17,135	*	*	*	*	-	-	-
Oil Seeds	301,817	38,320	106,931	250,467	16,490	29,808	*	2,245
Nueg	79,509	7,376	7,300	16,396	4,291	-	-	-
Linseed	25,746	3,264	1,942	60,149	2,120	*	*	*
Ground nuts	6,012	*	*	*	*	*	*	*
Safflower	6,696	3,754	16,006	54,000	1,388	*	*	*
Sesame	171,879	12,789	7,806	40,910	5,391	*	*	*
Rapeseed	11,976	10,045	73,142	87,985	2,753	*	*	*
Vegetables	63,098	57,250	266,908	772,177	5,345	12,098	*	*
Lettuce	42	*	*	*	*	-	-	-
Head Cabbage	893	564	*	67,141	299	-	-	-
Ethiopian Cabbage	861	641	730	193,996	498	*	*	*
Tomatoes	1,078	*	*	27,413	100	*	*	*
Green peppers	1,832	1,453	3,377	198,279	678	*	*	*
Red papers	58,305	54,254	260,993	341,133	3,751	6,549	*	*
Swiss chard	*	16	*	21,507	16	-	-	-
Root Crops	41,742	35,600	98,852	787,914	9,023	9,987	*	442
Beet root	249	220	458	32,174	96	-	-	-
Carrot	*	*	*	14,635	*	-	-	-
Onion	*	*	*	97,386	547	*	*	*
Potatoes	19,199	16,494	20,769	243,268	5,989	*	*	*
Yam	*	*	-	*	*	-	-	-
Garlic	9,028	6,779	23,845	550,920	2,191	*	*	*
Taro/'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	*	166	*	21,188	*	*	*	*
Other Temporary	18,858	13,180	50,505	366,834	2,766	*	*	*
Fruit Crops	5,367	2,164		297,857	1,628			
Avocado	90	53		27,292	53			
Bananas	1,100	332		88,045	305			
Guava	404	118		38,719	118			
Lemons	445	93		37,201	79			
Mangos	1,349	693		127,044	451			
Oranges	1,267	501		89,357	481			
Papayas	713	375		67,116	143			
Pineapples	-	-		*	-			
Stimulant Crops	44,886	24,109		1,017,862	19,928			
Chat	12,235	5,256		161,265	4,828			
Coffee	9,961	4,592		282,832	4,353			
Hops/'Gesho'	22,690	14,261		839,196	10,747			
Enset	-	-		-	-			
Sugar Cane	5,306	*		25,401	*			
Other Permanent	2,831	1,658		537,615	1,393			

(Table 1.3: cont'd.)

Amahara Region, 2017/18

Crop type	UREA			UREA + DAP			NPS		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	865,775	209,151	212,093	284,641	147,423	260,499	1,051,048	436,223	463,990
Cereals	695,615	191,885	183,427	277,252	141,260	233,868	876,498	390,478	396,857
Teff	242,757	67,528	46,882	149,565	52,115	62,071	457,421	195,223	182,727
Barley	67,478	8,915	8,312	78,578	16,307	23,869	106,061	32,881	36,596
Wheat	109,587	20,954	17,991	132,731	46,863	91,637	152,666	35,561	53,991
Maize	271,911	33,697	52,274	65,507	10,402	32,779	173,772	16,826	20,692
Sorghum	79,871	22,851	13,487	43,189	7,545	13,081	75,594	17,691	15,044
Finger millet	83,147	19,529	12,298	19,092	*	*	238,764	91,516	87,175
Oats/'Aja'	*	*	*	-	-	-	*	*	*
Rice	*	*	*	*	*	*	-	-	-
Pulse	71,202	5,765	6,465	28,897	2,765	7,438	217,697	32,381	40,941
Horse/Faba beans	29,255	1,792	3,128	*	*	*	123,888	13,976	17,528
Field peas	6,125	272	275	*	*	*	62,513	6,399	12,628
White Haricot beans	8,432	402	*	*	*	*	*	*	*
Red Haricot beans	*	*	*	*	*	*	*	*	*
Chick peas	*	*	*	-	-	-	*	*	*
Lentils	14,056	1,469	894	*	*	*	29,168	5,479	5,838
Veitch/Grass peas	*	*	*	*	*	*	*	*	*
Soya beans	*	*	*	-	-	-	*	*	*
Fenugreek	*	*	*	*	*	*	14,019	*	*
Mung bean/'Masho'	4,387	*	*	-	-	-	*	*	*
Gibto	-	-	-	-	-	-	*	*	*
Oil Seeds	37,069	*	3,422	16,753	*	1,876	47,297	3,829	5,447
Nueg	4,277	*	*	*	*	*	7,884	*	*
Linseed	*	*	*	*	*	*	8,274	208	479
Ground nuts	*	*	*	*	*	*	*	*	*
Safflower	8,315	240	*	*	*	*	11,342	285	1,085
Sesame	9,863	*	*	*	*	*	*	*	*
Rapeseed	*	*	*	*	*	*	15,348	962	*
Vegetables	135,873	2,689	4,247	11,705	279	680	70,338	1,651	3,764
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	9,936	72	271	-	-	-	*	*	*
Ethiopian Cabbage	13,235	55	*	*	*	*	*	*	*
Tomatoes	*	*	*	*	*	*	*	*	*
Green peppers	18,279	158	414	*	*	*	11,864	*	*
Red papers	101,123	2,359	3,190	8,500	*	*	44,838	1,358	3,205
Swiss chard	-	-	-	-	-	-	-	-	-
Root Crops	126,831	1,851	4,288	22,738	*	*	135,869	5,219	11,946
Beet root	6,438	*	*	-	-	-	*	*	*
Carrot	*	*	*	*	*	*	*	*	*
Onion	23,794	320	855	*	*	*	26,534	*	*
Potatoes	17,873	650	1,072	*	*	*	60,133	3,330	3,980
Yam	-	-	-	-	-	-	-	-	-
Garlic	79,533	662	2,038	6,091	*	*	54,065	604	*
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	*	*	*
Other Temporary	34,910	813	*	*	*	*	22,666	*	2,271
Fruit Crops									
Avocado									
Bananas									
Guava									
Lemons									
Mangos									
Oranges									
Papayas									
Pineapples									
Stimulant Crops									
Chat									
Coffee									
Hops/'Gesho'									
Enset									
Sugar Cane									
Other Permanent									

(Table 1.3: cont'd.)

Amahara Region, 2017/18

Crop type	NPS & UREA			INDIGENOUS SEED			IMPROVED SEED		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	2,272,384	1,541,137	3,774,778	4,913,564	4,270,821	3,039,227	1,308,939	390,611	119,781
Cereals	2,192,910	1,432,823	3,191,809	4,534,528	3,119,246	2,304,734	1,132,573	380,439	118,480
Teff	1,208,326	566,379	1,026,586	2,516,705	1,118,360	445,058	59,793	19,671	5,753
Barley	300,025	72,652	111,475	1,311,155	321,679	519,855	11,416	*	*
Wheat	963,162	338,582	711,935	1,591,209	532,179	879,206	107,210	22,483	40,844
Maize	1,102,827	339,510	1,162,327	2,275,192	184,515	78,803	1,039,285	335,602	67,946
Sorghum	150,186	43,972	61,538	1,716,440	672,492	180,171	-	-	-
Finger millet	206,628	62,769	92,518	726,302	246,098	105,782	*	*	*
Oats/'Aja'	*	*	*	54,969	4,095	6,192	-	-	-
Rice	*	*	*	104,975	39,830	89,669	-	-	-
Pulse	223,052	23,536	73,864	2,599,294	676,790	682,992	*	*	*
Horse/Faba beans	107,848	6,385	35,285	1,258,303	150,866	232,070	*	*	*
Field peas	45,890	4,460	14,386	726,021	81,168	106,990	-	-	-
White Haricot	*	*	*	265,497	38,041	21,903	-	-	-
Red Haricot beans	9,694	*	*	294,458	29,501	22,724	*	*	-
Chick peas	10,276	1,266	891	402,567	131,459	86,650	*	*	*
Lentils	36,781	5,365	5,608	511,218	69,988	71,710	-	-	-
Vetch/Grass peas	*	*	*	303,185	97,273	58,507	-	-	-
Soya beans	-	-	-	58,688	*	*	-	-	-
Fenugreek	32,894	2,975	3,314	290,478	15,669	8,943	-	-	-
Mung bean/'Masho'	6,323	*	697	254,768	31,671	21,190	-	-	-
Gibto	*	*	*	42,686	17,080	3,795	*	*	*
Oil Seeds	151,679	10,069	93,941	1,375,899	301,727	51,501	*	*	-
Nueg	12,246	*	*	349,631	79,509	8,730	-	-	-
Linseed	15,120	647	904	475,382	25,655	11,749	*	*	-
Ground nuts	-	-	-	74,477	6,012	*	-	-	-
Safflower	25,266	1,361	13,225	168,498	6,696	1,019	-	-	-
Sesame	*	*	*	341,299	171,879	20,417	-	-	-
Rapeseed	90,557	5,902	69,735	244,945	11,976	*	-	-	-
Vegetables	408,346	46,952	258,059	1,733,086	62,434	-	32,370	*	-
Lettuce	*	*	*	12,178	42	-	-	-	-
Head Cabbage	16,093	142	*	99,119	747	-	23,005	146	-
Ethiopian Cabbage	19,456	*	508	327,105	857	-	*	*	-
Tomatoes	*	*	*	72,004	872	-	*	*	-
Green peppers	31,011	*	*	337,941	1,832	-	-	-	-
Red papers	355,231	46,321	254,109	1,067,968	57,998	-	*	*	-
Swiss chard	*	*	*	31,076	*	-	*	*	-
Root Crops	333,537	17,734	74,543	1,653,645	40,361	-	27,999	*	-
Beet root	8,600	*	*	57,172	215	-	5,489	*	-
Carrot	*	*	*	23,373	*	-	5,872	60	-
Onion	92,182	*	*	310,146	*	-	10,489	*	-
Potatoes	91,155	5,123	8,516	504,459	19,057	-	*	*	-
Yam	-	-	-	*	*	-	-	-	-
Garlic	184,043	3,181	19,144	1,139,519	8,404	-	*	*	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	*	*	*	43,228	*	-	-	-	-
Other Temporary	94,140	*	40,895	711,900	15,411	-	*	*	-
Fruit Crops				629,769	4,646				
Avocado				33,994	66				
Bananas				170,490	985				
Guava				82,319	383				
Lemons				99,363	427				
Mangos				236,255	1,019				
Oranges				174,882	1,215				
Papayas				165,658	551				
Pineapples				*	-				
Stimulant Crops	90,977	2,478	34,291	1,858,100	42,220		115,787	*	-
Chat				341,374	12,235				
Coffee				408,427	7,329		109,890	*	-
Hops/'Gesho'				1,530,177	22,657				
Enset				-	-				
Sugar Cane				72,961	5,306				
Other Permanent				927,891	2,682				

(Table 1.3: Cont'd) Amahara Region, 2017/18

Crop type	PESTICIDE		IRRIGATION		EXTENSION PACKAGE	
	Holder	Hectare	Holder	Hectare	Holder	Hectare
All	1,468,491	805,974	736,923	63,124	3,005,224	1,976,442
Cereals	1,295,579	698,363	120,952	*	2,850,710	1,784,947
Teff	598,506	271,073	*	4,134	1,432,676	659,115
Barley	68,783	12,650	6,261	*	442,311	108,039
Wheat	295,490	101,355	9,673	1,369	1,069,778	350,102
Maize	296,108	66,476	73,240	4,832	1,446,911	383,809
Sorghum	349,137	157,889	*	*	472,239	159,475
Finger millet	226,944	87,083	*	*	284,940	111,578
Oats/'Aja'	*	*	*	*	12,823	1,040
Rice	*	*	*	*	*	*
Pulse	281,634	68,631	19,216	1,754	609,439	89,085
Horse/Faba beans	61,640	8,776	*	*	317,943	31,529
Field peas	29,017	2,574	*	*	125,851	12,502
White Haricot beans	*	*	*	*	23,856	1,559
Red Haricot beans	28,659	1,380	*	*	54,223	3,353
Chick peas	*	*	-	-	35,586	10,656
Lentils	53,987	*	*	*	78,464	11,445
Vetch/Grass peas	*	*	*	*	*	*
Soya beans	*	*	-	-	*	*
Fenugreek	*	*	5,235	*	47,647	3,424
Mung bean/'Masho"	106,471	17,275	*	*	65,887	8,253
Gibio	*	*	*	*	9,865	*
Oil Seeds	71,172	15,967	10,945	350	268,279	21,927
Nueg	*	*	*	*	21,989	2,032
Linseed	10,891	*	5,767	*	28,090	805
Ground nuts	*	*	*	*	26,365	*
Safflower	6,147	*	*	*	45,097	2,004
Sesame	45,763	13,337	*	*	64,602	8,479
Rapeseed	*	*	*	*	98,609	6,509
Vegetables	70,241	2,864	118,846	2,104	415,802	40,770
Lettuce	-	-	-	-	*	*
Head Cabbage	6,682	*	16,119	143	27,704	286
Ethiopian Cabbage	*	*	16,613	*	42,229	159
Tomatoes	6,814	*	16,494	*	14,874	*
Green peppers	7,560	31	39,978	273	47,437	*
Red papers	51,525	2,457	48,603	1,193	314,307	39,252
Swiss chard	*	*	3,864	*	*	*
Root Crops	71,962	*	145,488	*	435,965	20,056
Beet root	*	*	*	*	11,518	*
Carrot	*	*	7,982	*	9,976	*
Onion	53,800	*	79,253	*	120,161	*
Potatoes	*	*	21,852	*	110,413	5,961
Yam	-	-	-	-	*	*
Garlic	19,982	*	53,609	*	227,075	4,213
Taro/'Godere'	-	-	-	-	-	-
Sweet potatoes	-	-	*	*	17,843	*
Other Temporary	52,240	*	56,382	*	143,441	*
Fruit Crops	19,649	*	267,124	2,290	134,566	1,186
Avocado	-	-	26,269	47	16,378	27
Bananas	*	*	107,930	636	28,283	153
Guava	*	*	21,936	76	16,191	72
Lemons	*	*	40,108	*	14,127	39
Mangos	10,451	*	116,906	315	75,511	510
Oranges	*	*	68,680	*	26,217	*
Papayas	*	*	75,963	*	40,455	*
Pineapples	-	-	*	-	-	-
Stimulant Crops	109,674	4,373	455,071	11,743	309,396	9,440
Chat	73,879	3,236	92,864	3,174	60,551	*
Coffee	18,920	*	193,999	4,985	133,632	*
Hops/'Gesho'	47,083	1,013	321,459	3,584	180,195	3,807
Enset	-	-	-	-	-	-
Sugar Cane	*	*	48,183	4,450	12,450	*
Other Permanent	*	*	73,141	213	89,401	331

Table1.4: Number of Holders, Inputs Applied Area and Quantity of Inputs used, 2017/18

Oromia Region

<i>Crop type</i>	<i>All Crop Area</i>	<i>All Fertilizers</i>		<i>Natural</i>		<i>DAP</i>		
		<i>Hectare</i>	<i>Quintal</i>	<i>Holder</i>	<i>Hectare</i>	<i>Holder</i>	<i>Hectare</i>	<i>Quintal</i>
All	6,722,959	3,794,213	5,528,822	4,021,797	537,812	482,891	219,233	290,632
Cereals	4,797,159	3,289,913	4,784,142	2,456,020	324,734	424,838	184,728	212,905
<i>Teff</i>	1,443,848	1,116,736	1,476,764	177,968	36,398	93,776	19,497	25,858
<i>Barley</i>	451,279	312,310	313,627	246,339	31,469	102,762	35,158	35,902
<i>Wheat</i>	898,683	804,054	1,154,305	135,216	17,479	114,070	81,494	86,878
<i>Maize</i>	1,146,900	863,660	1,677,868	2,098,248	153,968	232,943	38,241	55,575
<i>Sorghum</i>	735,264	139,287	92,385	545,416	82,361	47,276	8,191	7,144
<i>Finger millet</i>	93,832	38,047	29,342	43,204	2,825	12,110	1,512	1,054
<i>Oats/'Aja'</i>	21,254	11,440	17,359	10,892	*	5,584	*	*
<i>Rice</i>	*	*	*	-	-	-	-	-
Pulse	622,145	210,703	227,543	1,070,717	50,246	120,195	18,920	24,736
<i>Horse/Faba</i>	204,388	98,645	79,636	409,049	25,956	40,107	6,878	6,977
<i>Field peas</i>	83,684	30,999	36,237	84,416	7,174	8,591	*	*
<i>White Haricot</i>	41,834	*	*	215,325	3,902	28,064	*	3,597
<i>Red Haricot</i>	84,060	23,409	40,660	373,145	7,218	19,522	*	*
<i>Chick peas</i>	92,829	13,145	7,984	24,002	1,849	4,090	-	*
<i>Lentils</i>	42,744	19,289	18,938	25,853	*	5,717	*	611
<i>Vetch/Grass peas</i>	40,149	1,634	*	8,620	*	-	-	-
<i>Soya beans</i>	9,611	1,333	*	7,685	*	-	-	-
<i>Fenugreek</i>	16,418	5,636	4,775	126,596	950	16,954	*	*
<i>Mung</i>	5,814	*	*	*	*	*	*	*
<i>Gibto</i>	*	*	*	-	-	-	-	-
Oil Seeds	337,990	39,041	70,883	313,079	8,517	30,139	*	*
<i>Nueg</i>	193,671	21,113	4,569	19,367	3,330	-	-	-
<i>Linseed</i>	46,443	6,439	4,756	38,551	756	10,676	*	*
<i>Ground nuts</i>	47,826	3,620	7,524	57,551	1,539	*	*	*
<i>Safflower</i>	*	*	*	6,085	*	-	-	-
<i>Sesame</i>	44,425	*	*	33,723	*	*	*	*
<i>Rapeseed</i>	4,970	3,766	51,228	174,825	1,642	-	-	-
Vegetables	85,314	54,899	85,982	1,587,592	15,101	39,239	*	*
<i>Lettuce</i>	*	*	*	7,924	*	-	-	-
<i>Head Cabbage</i>	3,324	2,609	1,689	201,380	1,677	*	*	*
<i>Ethiopian</i>	9,238	6,139	9,292	810,402	5,534	6,243	*	*
<i>Tomatoes</i>	1,752	1,506	*	29,920	36	*	*	*
<i>Green peppers</i>	5,611	3,598	2,959	621,221	2,188	*	*	*
<i>Red papers</i>	65,024	40,713	60,502	291,262	5,336	*	*	*
<i>Swiss chard</i>	*	*	*	34,946	*	-	-	-
Root Crops	91,088	68,439	189,781	1,266,926	17,274	56,443	5,731	11,729
<i>Beet root</i>	2,098	1,599	*	229,738	965	*	*	*
<i>Carrot</i>	*	*	*	70,706	*	*	*	*
<i>Onion</i>	15,389	12,587	55,774	215,751	1,719	*	*	*
<i>Potatoes</i>	38,926	35,264	111,239	93,113	3,060	34,074	4,678	9,950
<i>Yam</i>	*	*	-	14,837	*	-	-	-
<i>Garlic</i>	8,754	7,219	12,804	514,417	2,339	*	*	*
<i>Taro/'Godere'</i>	5,372	2,972	1,672	287,875	2,947	-	-	-
<i>Sweet potatoes</i>	16,796	5,315	4,940	222,994	4,371	16,154	*	*
Other Temporary	28,672	11,594	36,601	1,019,706	10,077	7,408	*	*
Fruit Crops	26,944	7,402		765,697	7,042			
<i>Avocado</i>	4,370	1,835		234,963	1,825			
<i>Bananas</i>	13,157	4,220		482,337	4,189			
<i>Guava</i>	1,173	*		47,246	63			
<i>Lemons</i>	177	52		19,275	52			
<i>Mangos</i>	6,596	622		187,620	610			
<i>Oranges</i>	689	166		76,517	164			
<i>Papayas</i>	780	143		105,229	139			
<i>Pineapples</i>	*	*		*	*			
Stimulant	655,969	67,182		1,360,274	60,605			
<i>Chat</i>	162,330	40,774		695,233	34,795			
<i>Coffee</i>	489,799	24,367		703,737	23,785			
<i>Hops/'Gesho'</i>	3,839	2,042		311,487	2,025			
Enset	68,806	42,152		984,533	42,118			
Sugar Cane	7,078	2,216		131,711	1,581			
Other Permanent	1,795	672		360,823	518			

(Table 1.4: cont'd.)

Oromia Region, 2017/18

Crop type	UREA			UREA + DAP			NPS		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	389,717	91,923	120,344	528,201	250,288	577,140	1,903,547	1,198,712	1,224,303
Cereals	268,438	67,664	86,952	500,064	230,246	480,465	1,766,391	1,058,763	1,040,689
Teff	77,749	29,189	21,232	196,692	94,858	183,198	839,609	427,049	378,722
Barley	12,894	2,376	1,672	61,925	19,596	35,506	360,130	161,121	157,360
Wheat	28,375	5,531	5,708	137,673	63,915	123,318	522,381	297,018	307,912
Maize	133,710	15,502	26,974	278,821	44,224	121,097	621,844	115,030	144,459
Sorghum	61,470	*	*	45,657	6,451	14,846	99,676	21,165	16,036
Finger millet	14,495	1,324	570	12,684	915	1,532	132,673	27,861	22,313
Oats/'Aja'	*	*	*	*	*	*	35,846	9,518	13,886
Rice	*	*	*	*	*	*	-	-	-
Pulse	50,114	6,094	5,207	70,620	6,517	20,118	442,525	92,646	101,310
Horse/Faba beans	11,836	1,153	1,050	27,151	3,773	9,102	265,793	50,352	46,995
Field peas	*	*	*	5,603	*	*	95,208	16,286	21,476
White Haricot beans	*	*	*	14,046	*	*	30,160	*	*
Red Haricot beans	13,036	*	1,742	16,636	*	3,180	59,266	5,780	12,452
Chick peas	*	*	*	*	*	*	8,752	*	*
Lentils	*	*	803	*	*	*	46,355	7,087	4,948
Vetch/Grass peas	-	-	-	*	-	*	*	*	*
Soya beans	-	-	-	-	-	-	*	*	*
Fenugreek	8,340	*	660	*	*	*	16,477	1,307	*
Mung bean/'Masho'	-	-	-	*	*	*	*	*	*
Gibto	-	-	-	*	-	*	-	-	-
Oil Seeds	25,507	*	3,362	8,512	*	*	96,934	21,572	11,417
Nueg	*	*	*	-	-	-	25,866	15,521	2,914
Linseed	3,598	*	*	*	*	*	17,114	3,029	1,754
Ground nuts	*	*	*	*	*	*	*	*	*
Safflower	*	*	*	-	-	-	*	-	*
Sesame	*	*	*	*	-	-	*	*	*
Rapeseed	*	-	*	*	-	*	45,644	*	5,010
Vegetables	82,204	12,719	8,209	22,669	*	*	86,960	8,205	15,153
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	6,850	*	*	-	-	-	10,443	*	*
Ethiopian Cabbage	*	*	*	*	*	*	18,721	196	*
Tomatoes	*	*	*	*	-	*	*	*	*
Green peppers	8,514	*	*	*	-	*	15,407	*	571
Red papers	64,171	11,393	6,806	17,946	*	*	46,636	*	12,249
Swiss chard	*	*	*	-	-	-	-	-	-
Root Crops	49,649	1,735	3,977	59,239	8,120	*	179,648	16,345	36,443
Beet root	*	*	*	*	*	*	10,818	*	*
Carrot	-	-	-	-	-	-	*	*	*
Onion	9,332	*	*	*	*	*	18,567	*	*
Potatoes	*	*	1,114	38,574	7,815	*	83,518	9,243	20,614
Yam	-	-	-	-	-	-	-	-	-
Garlic	16,052	*	*	9,108	*	*	56,221	3,402	7,722
Taro/'Godere'	*	*	*	*	*	*	*	*	*
Sweet potatoes	11,863	*	*	9,270	*	792	14,504	*	*
Other Temporary	12,928	*	474	11,397	*	1,104	59,686	899	6,522
Fruit Crops									
Avocado									
Bananas									
Guava									
Lemons									
Mangos									
Oranges									
Papayas									
Pineapples									
Stimulant Crops									
Chat									
Coffee									
Hops/'Gesho'									
Enset									
Sugar Cane									
Other Permanent									

(Table 1.4: cont'd.)

Oromia Region, 2017/18

Crop type	NPS & UREA			INDIGENOUS SEED			IMPROVED SEED		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	2,245,148	1,496,243	3,316,402	7,044,887	5,950,090	4,739,458	2,209,147	772,869	341,722
Cereals	2,199,609	1,423,778	2,963,132	6,183,939	4,058,322	3,837,515	2,075,189	738,837	333,778
Teff	822,075	509,745	867,754	2,743,554	1,427,661	818,076	45,602	16,187	6,906
Barley	180,806	62,590	83,186	1,279,773	437,112	780,084	39,718	14,167	*
Wheat	567,838	338,617	630,489	1,654,213	846,799	1,664,646	88,172	51,883	95,562
Maize	1,378,854	496,695	1,329,762	3,989,098	492,987	311,086	1,958,653	653,913	192,240
Sorghum	53,304	8,032	23,910	2,106,008	732,844	154,449	15,113	2,420	485
Finger millet	34,686	3,611	3,873	629,124	93,692	43,284	*	*	*
Oats/'Aja'	10,916	999	2,737	136,785	21,126	54,609	*	*	*
Rice	*	*	*	*	*	*	-	-	-
Pulse	164,479	36,279	76,172	3,313,923	616,243	768,434	22,244	5,902	7,505
Horse/Faba beans	58,192	10,532	15,511	1,471,707	202,979	306,827	6,421	*	*
Field peas	37,423	6,319	11,310	593,351	83,595	123,359	*	*	*
White Haricot	16,091	*	*	612,811	41,796	58,476	*	*	*
Red Haricot beans	30,150	*	15,589	1,067,714	81,956	78,580	*	*	*
Chick peas	7,012	3,328	3,452	206,886	90,585	112,900	*	*	*
Lentils	30,904	7,988	11,803	264,559	42,744	34,685	-	-	-
Vetch/Grass peas	-	-	-	128,076	40,149	31,697	-	-	-
Soya beans	*	*	*	50,677	9,611	6,320	-	-	-
Fenugreek	8,693	*	*	297,393	16,402	9,656	*	*	*
Mung bean/'Masho'	-	-	-	38,583	5,814	5,625	-	-	-
Gibto	*	*	*	*	*	*	-	-	-
Oil Seeds	88,987	*	50,329	1,419,840	337,559	133,508	*	*	*
Nueg	6,500	*	1,620	505,687	193,671	34,340	*	-	*
Linseed	*	-	*	277,084	46,024	26,303	*	*	*
Ground nuts	*	*	*	328,283	47,826	63,241	-	-	-
Safflower	*	-	*	50,997	*	199	*	*	*
Sesame	-	-	-	176,710	44,425	4,846	-	-	-
Rapeseed	71,765	*	45,706	374,684	4,970	*	-	-	-
Vegetables	104,360	11,452	46,262	2,659,822	83,483	-	34,676	1,831	-
Lettuce	*	*	*	12,798	*	-	-	-	-
Head Cabbage	*	*	*	290,601	2,615	-	23,144	*	-
Ethiopian Cabbage	16,580	*	*	1,272,657	9,230	-	*	*	-
Tomatoes	5,005	*	*	74,502	675	-	6,458	*	-
Green peppers	13,779	363	*	944,845	5,607	-	*	*	-
Red papers	71,925	10,061	29,036	797,568	64,990	-	*	*	-
Swiss chard	*	-	*	51,708	*	-	-	-	-
Root Crops	117,054	19,233	101,248	2,385,891	85,767	-	65,828	5,321	-
Beet root	*	*	*	305,012	1,486	-	29,603	*	-
Carrot	*	*	*	90,781	1,861	-	*	*	-
Onion	38,760	7,579	*	380,717	13,686	-	13,956	*	-
Potatoes	30,463	*	*	354,328	37,767	-	*	*	-
Yam	-	-	-	21,521	*	-	-	-	-
Garlic	33,905	*	*	835,555	8,702	-	*	*	-
Taro/'Godere'	7,366	11	1,078	527,934	5,369	-	*	*	-
Sweet potatoes	9,321	*	*	647,775	16,796	-	-	-	-
Other Temporary	56,173	244	27,834	1,688,789	28,558	-	6,121	*	-
Fruit Crops				1,857,434	26,626				
Avocado				575,119	4,329				
Bananas				1,227,016	13,138				
Guava				173,951	924				
Lemons				55,869	176				
Mangos				729,322	6,587				
Oranges				244,056	689				
Papayas				300,463	780				
Pineapples				8,405	*				
Stimulant Crops	66,440	*	31,452	3,403,305	636,499		138,749	19,470	-
Chat				1,770,128	162,262				
Coffee				2,221,045	470,406		132,214	19,393	-
Hops/'Gesho'				562,475	3,831				
Enset				1,641,345	68,179				
Sugar Cane				324,526	7,078				
Other Permanent				713,082	1,777				

(Table 1.4: Cont'd) Oromia Region, 2017/18

Crop type	PESTICIDE		IRRIGATION		EXTENSION PACKAGE	
	Holder	Hectare	Holder	Hectare	Holder	Hectare
All	3,285,136	2,528,548	295,546	44,932	3,123,925	1,608,230
Cereals	3,054,211	2,319,240	144,300	10,666	2,969,936	1,462,621
Teff	1,796,477	1,026,772	7,176	*	473,246	212,681
Barley	571,234	241,864	5,487	*	234,326	91,600
Wheat	1,204,528	741,691	4,260	*	519,922	399,853
Maize	547,333	161,963	125,483	7,163	2,294,159	700,629
Sorghum	187,758	91,654	34,805	788	233,874	36,737
Finger millet	212,370	38,398	*	*	75,899	7,288
Oats/'Aja'	67,211	14,549	*	-	48,610	11,318
Rice	*	*	-	-	*	*
Pulse	385,668	122,721	18,663	*	444,364	74,597
Horse/Faba beans	187,100	43,712	*	*	167,584	35,323
Field peas	63,173	12,297	*	*	37,393	6,427
White Haricot beans	12,359	*	12,210	*	88,525	2,932
Red Haricot beans	48,038	8,947	*	*	144,975	16,524
Chick peas	41,709	30,649	*	*	12,244	*
Lentils	85,464	22,036	-	-	*	*
Vetch/Grass peas	*	*	-	-	*	*
Soya beans	*	*	-	-	*	*
Fenugreek	12,266	2,157	-	-	44,466	*
Mung bean/'Masho'	-	-	-	-	*	*
Gibto	-	-	-	-	-	-
Oil Seeds	64,587	16,203	*	*	162,816	9,923
Nueg	*	*	-	-	*	*
Linseed	26,043	8,225	*	-	22,332	*
Ground nuts	13,729	*	*	*	54,487	3,512
Safflower	*	-	-	-	*	-
Sesame	*	*	*	-	7,147	*
Rapeseed	14,237	*	-	-	76,578	171
Vegetables	65,920	6,780	40,764	2,157	174,944	*
Lettuce	*	*	-	-	-	-
Head Cabbage	14,256	*	*	*	15,225	*
Ethiopian Cabbage	20,625	211	*	*	58,062	357
Tomatoes	4,765	*	7,855	*	9,344	*
Green peppers	7,542	*	21,050	*	31,324	*
Red papers	26,637	*	5,445	*	74,104	*
Swiss chard	*	-	*	*	*	*
Root Crops	280,894	46,012	59,032	8,166	262,850	29,971
Beet root	7,269	*	*	*	23,385	*
Carrot	*	*	-	-	*	*
Onion	55,201	11,362	25,089	*	22,389	4,643
Potatoes	123,569	26,433	*	*	101,041	19,668
Yam	-	-	-	-	-	-
Garlic	88,098	5,305	6,672	*	38,848	*
Taro/'Godere'	-	-	-	-	20,152	75
Sweet potatoes	6,758	*	23,990	*	62,402	*
Other Temporary	*	*	15,357	*	109,575	427
Fruit Crops	9,924	*	71,364	1,265	67,707	584
Avocado	*	*	5,512	*	20,933	*
Bananas	*	*	51,273	*	23,918	*
Guava	*	*	*	*	*	*
Lemons	*	*	*	*	*	*
Mangos	5,718	*	19,586	*	22,894	35
Oranges	*	*	*	*	4,377	*
Papayas	*	*	16,321	41	*	*
Pineapples	-	-	-	-	-	-
Stimulant Crops	134,465	10,220	187,092	20,250	403,223	13,385
Chat	109,535	7,897	154,498	18,726	279,383	*
Coffee	24,528	2,237	59,069	1,404	155,941	12,400
Hops/'Gesho'	11,377	86	11,097	*	15,488	*
Enset	7,863	*	*	*		
Sugar Cane	*	*	32,416	1,755	5,372	*
Other Permanent	*	*	12,501	*	17,917	30

Table1: Number of Holders, Inputs Applied Area and Quantity of Inputs used, 2017/18

Somale Region

Crop type	All Crop Area	All Fertilizers		Natural		DAP		
		Hectare	Quintal	Holder	Hectare	Holder	Hectare	Quintal
All	88,920	11,374	*	32,838	11,193	-	-	-
Cereals	71,020	7,210	*	24,670	7,132	-	-	-
Teff	*	-	-	-	-	-	-	-
Barley	*	-	-	-	-	-	-	-
Wheat	*	*	-	*	*	-	-	-
Maize	23,792	*	*	11,834	*	-	-	-
Sorghum	41,271	4,980	*	16,109	4,929	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	*	*	-	*	*	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
White Haricot	-	-	-	-	-	-	-	-
Red Haricot beans	*	*	-	*	*	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung bean/'Masho"	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oil Seeds	*	*	-	*	*	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	*	*	-	*	*	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	*	*	-	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	*	*	-	*	*	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	325	*	-	*	*	-	-	-
Green peppers	*	*	-	*	*	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root Crops	*	*	*	*	*	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	*	*	*	*	*	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-
Garlic	*	-	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	*	*	-	*	*	-	-	-
Other Temporary	*	-	-	-	-	-	-	-
Fruit Crops	1,645	*		*	*			
Avocado	-	-		-	-			
Bananas	*	*		*	*			
Guava	*	*		*	*			
Lemons	*	*		6,993	*			
Mangos	*	*		*	*			
Oranges	468	*		*	*			
Papayas	*	*		*	*			
Pineapples	-	-		-	-			
Stimulant Crops	10,870	*		*	*			
Chat	10,439	*		*	*			
Coffee	*	*		*	*			
Hops/'Gesho'	-	-		-	-			
Enset	-	-		-	-			
Sugar Cane	-	-		-	-			
Other Permanent	*	*		*	*			

(Table 1: cont'd.)

Somale Region, 2017/18

Crop type	UREA			UREA + DAP			NPS		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	*	*	*	-	-	-	-	-	-
Cereals	*	*	*	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	*	*	*	-	-	-	-	-	-
Sorghum	*	*	*	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
White Haricot beans	-	-	-	-	-	-	-	-	-
Red Haricot beans	-	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Veich/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/'Masho'	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root Crops	*	*	*	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	*	*	*	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-
Fruit Crops									
Avocado									
Bananas									
Guava									
Lemons									
Mangos									
Oranges									
Papayas									
Pineapples									
Stimulant Crops									
Chat									
Coffee									
Hops/'Gesho'									
Enset									
Sugar Cane									
Other Permanent									

(Table 1: cont'd.)

Somale Region, 2017/18

Crop type	NPS & UREA			INDIGENOUS SEED			IMPROVED SEED		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	-	-	-	123,546	88,152	34,586	3,741	*	*
Cereals	-	-	-	109,473	70,423	32,065	*	*	*
Teff	-	-	-	*	*	*	-	-	-
Barley	-	-	-	*	*	*	-	-	-
Wheat	-	-	-	*	*	*	-	-	-
Maize	-	-	-	63,555	23,445	*	*	*	*
Sorghum	-	-	-	78,461	41,022	13,495	*	*	*
Finger millet	-	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulse	-	-	-	*	*	*	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
White Haricot	-	-	-	-	-	-	-	-	-
Red Haricot beans	-	-	-	*	*	*	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/'Masho'	-	-	-	-	-	-	-	-	-
Gibbo	-	-	-	-	-	-	-	-	-
Oil Seeds	-	-	-	*	*	*	-	-	-
Nueg	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	*	*	*	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	*	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	-	-	-	9,806	*	-	*	*	-
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	5,927	*	-	*	*	-
Green peppers	-	-	-	*	*	-	-	-	-
Red papers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root Crops	-	-	-	14,984	*	-	*	*	-
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	12,515	*	-	*	*	-
Potatoes	-	-	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	*	*	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	*	*	-	-	-	-
Other Temporary	-	-	-	*	*	-	-	-	-
Fruit Crops				35,634	1,632				
Avocado				-	-				
Bananas				7,816	*				
Guava				*	*				
Lemons				17,306	*				
Mangos				*	*				
Oranges				29,012	468				
Papayas				*	*				
Pineapples				-	-				
Stimulant Crops	-	-	-	41,309	10,870		-	-	-
Chat				40,324	10,439				
Coffee				*	*		-	-	-
Hops/'Gesho'				-	-				
Enset				-	-				
Sugar Cane				-	-				
Other Permanent				7,818	*				

(Table 1: Cont'd) **Somale Region, 2017/18**

<i>Crop type</i>	<i>PESTICIDE</i>		<i>IRRIGATION</i>		<i>EXTENSION PACKAGE</i>	
	<i>Holder</i>	<i>Hectare</i>	<i>Holder</i>	<i>Hectare</i>	<i>Holder</i>	<i>Hectare</i>
All	*	*	40,915	*	*	*
Cereals	*	*	27,262	*	*	*
<i>Teff</i>	-	-	-	-	-	-
<i>Barley</i>	-	-	-	-	-	-
<i>Wheat</i>	-	-	-	-	-	-
<i>Maize</i>	*	*	17,563	1,594	*	*
<i>Sorghum</i>	-	-	*	*	*	*
<i>Finger millet</i>	-	-	-	-	-	-
<i>Oats/'Aja'</i>	-	-	-	-	-	-
<i>Rice</i>	-	-	-	-	-	-
Pulse	-	-	*	*	-	-
<i>Horse/Faba beans</i>	-	-	-	-	-	-
<i>Field peas</i>	-	-	-	-	-	-
<i>White Haricot beans</i>	-	-	-	-	-	-
<i>Red Haricot beans</i>	-	-	*	*	-	-
<i>Chick peas</i>	-	-	-	-	-	-
<i>Lentils</i>	-	-	-	-	-	-
<i>Vetch/Grass peas</i>	-	-	-	-	-	-
<i>Soya beans</i>	-	-	-	-	-	-
<i>Fenugreek</i>	-	-	-	-	-	-
<i>Mung bean/'Masho'</i>	-	-	-	-	-	-
<i>Gibto</i>	-	-	-	-	-	-
Oil Seeds	-	-	*	*	-	-
<i>Nueg</i>	-	-	-	-	-	-
<i>Linseed</i>	-	-	-	-	-	-
<i>Ground nuts</i>	-	-	*	*	-	-
<i>Safflower</i>	-	-	-	-	-	-
<i>Sesame</i>	-	-	*	*	-	-
<i>Rapeseed</i>	-	-	-	-	-	-
Vegetables	*	*	*	140	*	*
<i>Lettuce</i>	-	-	-	-	-	-
<i>Head Cabbage</i>	-	-	-	-	-	-
<i>Ethiopian Cabbage</i>	-	-	-	-	-	-
<i>Tomatoes</i>	-	-	*	*	-	-
<i>Green peppers</i>	*	*	*	*	*	*
<i>Red papers</i>	-	-	-	-	-	-
<i>Swiss chard</i>	-	-	-	-	-	-
Root Crops	-	-	*	*	*	*
<i>Beet root</i>	-	-	-	-	-	-
<i>Carrot</i>	-	-	-	-	-	-
<i>Onion</i>	-	-	*	*	*	*
<i>Potatoes</i>	-	-	-	-	-	-
<i>Yam</i>	-	-	-	-	-	-
<i>Garlic</i>	-	-	-	-	-	-
<i>Taro/'Godere'</i>	-	-	-	-	-	-
<i>Sweet potatoes</i>	-	-	*	*	-	-
Other Temporary	-	-	*	*	-	-
Fruit Crops	*	*	33,785	1,526	*	*
<i>Avocado</i>	-	-	-	-	-	-
<i>Bananas</i>	-	-	7,555	*	-	-
<i>Guava</i>	-	-	*	*	-	-
<i>Lemons</i>	-	-	15,746	*	*	*
<i>Mangos</i>	-	-	*	*	-	-
<i>Oranges</i>	*	*	27,862	450	-	-
<i>Papayas</i>	-	-	*	*	-	-
<i>Pineapples</i>	-	-	-	-	-	-
Stimulant Crops	*	*	*	*	-	-
<i>Chat</i>	*	*	*	*	-	-
<i>Coffee</i>	*	*	*	*	-	-
<i>Hops/'Gesho'</i>	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-
Other Permanent	-	-	*	*	-	-

Table1: Number of Holders, Inputs Applied Area and Quantity of Inputs used, 2017/18

Benshangul-GumuzRegion

Crop type	All Crop Area	All Fertilizers		Natural		DAP		
		Hectare	Quintal	Holder	Hectare	Holder	Hectare	Quintal
All	269,256	82,337	92,869	96,093	13,015	22,730	13,334	8,973
Cereals	169,256	69,971	80,931	77,774	9,292	20,347	9,535	5,927
<i>Teff</i>	24,530	16,194	11,266	2,635	311	8,940	3,519	*
<i>Barley</i>	729	*	*	1,672	168	*	*	*
<i>Wheat</i>	2,456	1,992	1,242	*	*	*	*	*
<i>Maize</i>	50,681	32,987	61,052	69,262	6,940	10,997	1,108	1,194
<i>Sorghum</i>	58,946	3,633	1,062	8,734	*	6,595	1,922	948
<i>Finger millet</i>	29,167	12,433	5,067	-	-	4,223	1,226	509
<i>Oats/'Aja'</i>	*	*	*	-	-	-	-	-
<i>Rice</i>	*	*	*	*	*	*	*	*
Pulse	22,792	4,268	4,703	14,774	681	10,371	2,876	2,392
<i>Horse/Faba beans</i>	878	*	*	2,538	*	*	*	*
<i>Field peas</i>	686	*	*	*	*	*	*	*
<i>White Haricot</i>	2,046	206	*	3,030	*	*	*	*
<i>Red Haricot beans</i>	3,155	*	*	7,320	81	*	*	*
<i>Chick peas</i>	424	*	*	*	*	*	*	*
<i>Lentils</i>	*	*	*	*	*	-	-	-
<i>Vetch/Grass peas</i>	-	-	-	-	-	-	-	-
<i>Soya beans</i>	14,077	2,554	2,017	*	*	7,273	2,236	1,850
<i>Fenugreek</i>	*	*	-	*	*	-	-	-
<i>Mung bean/'Masho'</i>	1,428	*	*	*	*	*	*	*
<i>Gibto</i>	*	-	-	-	-	-	-	-
Oil Seeds	61,362	2,318	557	6,660	*	3,969	585	340
<i>Nueg</i>	11,054	*	*	*	*	*	*	*
<i>Linseed</i>	*	*	*	*	*	-	-	-
<i>Ground nuts</i>	20,074	*	249	2,053	*	3,323	*	*
<i>Safflower</i>	*	*	-	*	*	-	-	-
<i>Sesame</i>	29,033	*	182	*	*	*	*	*
<i>Rapeseed</i>	136	48	*	2,428	33	-	-	-
Vegetables	5,121	3,565	1,937	15,989	401	2,223	*	86
<i>Lettuce</i>	*	*	-	*	*	-	-	-
<i>Head Cabbage</i>	*	2	*	1,400	1	-	-	-
<i>Ethiopian Cabbage</i>	162	26	*	3,305	*	-	-	-
<i>Tomatoes</i>	50	*	*	2,443	*	*	*	*
<i>Green peppers</i>	48	8	*	3,016	4	-	-	-
<i>Red papers</i>	4,786	3,513	1,588	9,123	366	2,064	*	*
<i>Swiss chard</i>	*	-	-	-	-	-	-	-
Root Crops	1,600	566	493	23,573	366	1,965	*	*
<i>Beet root</i>	*	*	*	*	*	*	*	*
<i>Carrot</i>	*	*	-	*	*	-	-	-
<i>Onion</i>	280	*	*	3,710	*	*	*	*
<i>Potatoes</i>	*	*	*	1,034	20	*	*	*
<i>Yam</i>	*	*	-	*	*	-	-	-
<i>Garlic</i>	94	*	47	7,269	*	*	*	*
<i>Taro/'Godere'</i>	62	30	*	4,421	29	-	-	-
<i>Sweet potatoes</i>	980	242	*	12,352	224	*	*	*
Other Temporary	3,049	939	*	31,881	710	1,573	*	*
Fruit Crops	2,369	452		20,705	379			
<i>Avocado</i>	8	*		*	*			
<i>Bananas</i>	795	*		9,254	*			
<i>Guava</i>	122	*		1,319	*			
<i>Lemons</i>	33	*		*	*			
<i>Mangos</i>	1,166	172		9,607	111			
<i>Oranges</i>	120	10		3,607	10			
<i>Papayas</i>	125	35		5,990	*			
<i>Pineapples</i>	-	-		-	-			
Stimulant Crops	3,382	230		10,006	218			
<i>Chat</i>	1,401	*		2,743	*			
<i>Coffee</i>	1,863	129		6,402	129			
<i>Hops/'Gesho'</i>	*	*		*	*			
Enset	22	*		*	*			
Sugar Cane	*	*		*	*			
Other Permanent	86	23		6,723	23			

(Table 1: cont'd.)

Benshabgul- Gumus Region, 2017/18

Crop type	UREA			UREA + DAP			NPS		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	18,161	6,904	3,155	43,842	16,829	40,223	17,478	19,831	11,603
Cereals	9,385	4,935	2,235	43,115	16,208	37,240	16,344	18,895	10,796
<i>Teff</i>	*	*	*	2,588	*	*	9,939	9,033	6,179
<i>Barley</i>	-	-	-	*	*	*	*	*	*
<i>Wheat</i>	*	*	*	*	*	*	*	*	*
<i>Maize</i>	4,824	1,160	1,131	40,349	13,462	34,695	5,667	1,156	745
<i>Sorghum</i>	*	*	*	*	*	*	-	-	-
<i>Finger millet</i>	3,653	2,189	509	*	*	*	7,457	7,635	2,955
<i>Oats/'Aja'</i>	-	-	-	-	-	-	*	*	*
<i>Rice</i>	*	*	*	*	*	*	-	-	-
Pulse	*	*	*	2,967	*	*	*	*	*
<i>Horse/Faba beans</i>	*	*	*	-	-	-	*	*	*
<i>Field peas</i>	-	-	-	-	-	-	*	*	*
<i>White Haricot beans</i>	*	*	*	-	-	-	*	*	*
<i>Red Haricot beans</i>	-	-	-	2,445	*	*	*	*	*
<i>Chick peas</i>	-	-	-	*	*	*	-	-	-
<i>Lentils</i>	-	-	-	-	-	-	*	*	*
<i>Veitch/Grass peas</i>	-	-	-	-	-	-	-	-	-
<i>Soya beans</i>	*	*	*	*	*	*	-	-	-
<i>Fenugreek</i>	-	-	-	-	-	-	-	-	-
<i>Mung bean/'Masho'</i>	-	-	-	-	-	-	-	-	-
<i>Gibto</i>	-	-	-	-	-	-	-	-	-
Oil Seeds	2,378	634	113	*	*	*	1,394	*	*
<i>Nueg</i>	-	-	-	-	-	-	-	-	-
<i>Linseed</i>	-	-	-	-	-	-	*	*	*
<i>Ground nuts</i>	*	*	*	*	*	*	-	-	-
<i>Safflower</i>	-	-	-	-	-	-	-	-	-
<i>Sesame</i>	*	*	*	*	*	*	*	*	*
<i>Rapeseed</i>	-	-	-	-	-	-	*	*	*
Vegetables	7,813	1,011	357	2,438	261	*	2,293	561	*
<i>Lettuce</i>	-	-	-	-	-	-	-	-	-
<i>Head Cabbage</i>	*	*	*	-	-	-	*	*	*
<i>Ethiopian Cabbage</i>	*	*	*	*	*	*	*	*	*
<i>Tomatoes</i>	-	-	-	-	-	-	-	-	-
<i>Green peppers</i>	*	*	*	-	-	-	-	-	-
<i>Red papers</i>	6,464	1,003	314	2,165	258	142	2,120	561	*
<i>Swiss chard</i>	-	-	-	-	-	-	-	-	-
Root Crops	*	*	*	*	*	*	2,771	*	*
<i>Beet root</i>	-	-	-	-	-	-	-	-	-
<i>Carrot</i>	-	-	-	-	-	-	-	-	-
<i>Onion</i>	*	*	*	-	-	-	*	*	*
<i>Potatoes</i>	*	*	*	-	-	-	672	22	12
<i>Yam</i>	-	-	-	-	-	-	-	-	-
<i>Garlic</i>	*	*	*	-	-	-	1,302	*	*
<i>Taro/'Godere'</i>	-	-	-	*	*	*	-	-	-
<i>Sweet potatoes</i>	-	-	-	*	*	*	*	*	*
Other Temporary	*	*	*	2,166	*	*	*	*	*
Fruit Crops									
<i>Avocado</i>									
<i>Bananas</i>									
<i>Guava</i>									
<i>Lemons</i>									
<i>Mangos</i>									
<i>Oranges</i>									
<i>Papayas</i>									
<i>Pineapples</i>									
Stimulant Crops									
<i>Chat</i>									
<i>Coffee</i>									
<i>Hops/'Gesho'</i>									
Enset									
Sugar Cane									
Other Permanent									

(Table 1: cont'd.)

Benshangul-Gumuz Region, 2017/18

Crop type	NPS & UREA			INDIGENOUS SEED			IMPROVED SEED		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	14,086	12,425	28,915	241,126	247,695	94,462	51,879	21,561	8,323
Cereals	13,384	11,106	24,733	230,004	148,183	50,683	50,112	21,074	8,066
Teff	1,082	1,217	*	42,791	24,530	11,650	-	-	-
Barley	*	*	*	4,928	729	*	-	-	-
Wheat	*	*	*	8,455	2,456	1,711	-	-	-
Maize	12,423	9,159	23,286	196,617	30,353	12,820	49,466	20,328	7,688
Sorghum	-	-	-	123,269	58,826	11,265	*	*	*
Finger millet	*	*	*	47,734	28,772	10,072	*	*	*
Oats/'Aja'	-	-	-	*	*	*	-	-	-
Rice	-	-	-	*	*	*	*	*	*
Pulse	*	*	*	113,633	22,428	18,869	*	*	*
Horse/Faba beans	*	*	*	9,705	878	1,346	-	-	-
Field peas	*	*	*	4,654	686	*	-	-	-
White Haricot	-	-	-	19,168	2,046	*	-	-	-
Red Haricot beans	*	*	*	61,267	3,151	2,654	*	*	*
Chick peas	-	-	-	1,404	424	55	-	-	-
Lentils	-	-	-	*	*	*	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	26,658	13,716	12,307	*	*	*
Fenugreek	-	-	-	*	*	*	-	-	-
Mung bean/'Masho"	-	-	-	10,612	1,428	679	-	-	-
Gibto	-	-	-	*	*	*	-	-	-
Oil Seeds	-	-	-	134,242	61,332	24,910	*	*	*
Nueg	-	-	-	36,605	11,054	1,966	-	-	-
Linseed	-	-	-	12,133	*	121	*	*	*
Ground nuts	-	-	-	72,182	20,047	20,665	*	*	*
Safflower	-	-	-	2,630	*	*	-	-	-
Sesame	-	-	-	56,921	29,033	2,123	-	-	-
Rapeseed	-	-	-	5,014	136	*	-	-	-
Vegetables	1,649	*	*	64,702	5,050	-	*	*	-
Lettuce	-	-	-	*	*	-	-	-	-
Head Cabbage	-	-	-	5,866	*	-	-	-	-
Ethiopian Cabbage	-	-	-	15,154	162	-	-	-	-
Tomatoes	-	-	-	8,734	50	-	-	-	-
Green peppers	-	-	-	10,060	48	-	-	-	-
Red papers	1,649	*	*	38,346	4,716	-	*	*	-
Swiss chard	-	-	-	*	*	-	-	-	-
Root Crops	-	-	-	89,616	1,600	-	*	*	-
Beet root	-	-	-	3,641	*	-	-	-	-
Carrot	-	-	-	*	*	-	-	-	-
Onion	-	-	-	14,678	280	-	*	*	-
Potatoes	-	-	-	3,534	*	-	-	-	-
Yam	-	-	-	*	*	-	-	-	-
Garlic	-	-	-	14,534	94	-	-	-	-
Taro/'Godere'	-	-	-	14,718	62	-	-	-	-
Sweet potatoes	-	-	-	66,103	980	-	-	-	-
Other Temporary	*	*	*	101,703	3,045	-	*	*	-
Fruit Crops				117,993	2,366				
Avocado				5,434	8				
Bananas				49,283	795				
Guava				13,597	122				
Lemons				9,948	33				
Mangos				76,928	1,163				
Oranges				19,080	120				
Papayas				34,917	125				
Pineapples				-	-				
Stimulant Crops	-	-	-	47,128	3,367		*	*	-
Chat				20,510	1,401				
Coffee				29,534	1,848		*	*	-
Hops/'Geshe'				9,805	*				
Enset				4,128	22				
Sugar Cane				2,198	*				
Other Permanent				26,784	86				

(Table 1: Cont'd) Benshangule-Gumuz Region, 2017/18

Crop type	PESTICIDE		IRRIGATION		EXTENSION PACKAGE	
	Holder	Hectare	Holder	Hectare	Holder	Hectare
All	31,960	34,427	6,761	727	86,977	57,374
Cereals	31,231	29,171	*	*	82,236	48,357
Teff	7,491	6,417	-	-	13,031	11,523
Barley	*	*	-	-	*	*
Wheat	1,415	*	-	-	5,554	1,727
Maize	12,639	6,743	*	*	73,577	25,412
Sorghum	2,909	574	-	-	2,674	576
Finger millet	15,073	12,707	-	-	9,518	7,844
Oats/'Aja'	*	*	-	-	*	*
Rice	*	*	-	-	*	*
Pulse	*	*	*	*	11,687	3,139
Horse/Faba beans	-	-	-	-	*	*
Field peas	-	-	-	-	*	*
White Haricot beans	-	-	-	-	1,114	*
Red Haricot beans	*	*	-	-	3,683	*
Chick peas	*	*	-	-	*	*
Lentils	-	-	-	-	*	*
Vetch/Grass peas	-	-	-	-	-	-
Soya beans	*	*	*	*	*	*
Fenugreek	-	-	-	-	-	-
Mung bean/'Masho"	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oil Seeds	6,057	*	-	-	11,628	3,740
Nueg	*	*	-	-	*	*
Linseed	*	*	-	-	*	*
Ground nuts	4,446	*	-	-	9,003	3,214
Safflower	*	*	-	-	*	*
Sesame	*	*	-	-	*	*
Rapeseed	-	-	-	-	*	*
Vegetables	*	*	*	*	8,951	*
Lettuce	-	-	-	-	-	-
Head Cabbage	-	-	*	*	*	*
Ethiopian Cabbage	-	-	-	-	*	*
Tomatoes	-	-	*	*	-	-
Green peppers	-	-	*	*	-	-
Red papers	*	*	*	*	7,712	*
Swiss chard	-	-	-	-	-	-
Root Crops	-	-	*	*	4,935	144
Beet root	-	-	*	*	*	*
Carrot	-	-	-	-	-	-
Onion	-	-	*	*	*	*
Potatoes	-	-	-	-	1,564	*
Yam	-	-	-	-	-	-
Garlic	-	-	*	*	1,590	*
Taro/'Godere'	-	-	-	-	*	*
Sweet potatoes	-	-	*	*	*	*
Other Temporary	-	-	*	*	8,394	*
Fruit Crops	*	*	3,650	*	3,028	*
Avocado	-	-	-	-	-	-
Bananas	-	-	*	*	1,061	*
Guava	*	*	-	-	*	*
Lemons	-	-	-	-	-	-
Mangos	-	-	*	*	1,546	*
Oranges	-	-	-	-	-	-
Papayas	-	-	*	*	*	*
Pineapples	-	-	-	-	-	-
Stimulant Crops	*	*	2,462	*	1,334	32
Chat	*	*	*	*	*	*
Coffee	-	-	*	*	737	*
Hops/'Gesho'	-	-	*	*	*	*
Enset	-	-	-	-	-	-
Sugar Cane	-	-	*	*	-	-
Other Permanent	-	-	-	-	*	*

Table1: Number of Holders, Inputs Applied Area and Quantity of Inputs used, 2017/18

SNNP Region

Crop type	All Crop Area	All Fertilizers		Natural		DAP		
		Hectare	Quintal	Holder	Hectare	Holder	Hectare	Quintal
All	1,823,202	1,035,699	1,301,126	2,491,029	318,011	426,770	88,970	105,028
Cereals	892,134	597,371	921,568	670,490	35,498	278,437	46,077	54,180
Teff	248,124	186,961	252,320	16,917	1,670	130,498	23,096	22,898
Barley	81,161	50,024	53,209	58,352	4,089	34,225	5,932	5,271
Wheat	127,247	118,581	212,402	18,737	1,373	36,937	4,705	*
Maize	314,535	215,861	356,553	529,658	20,194	110,943	10,809	14,032
Sorghum	112,194	21,094	39,796	139,368	7,807	12,196	*	*
Finger millet	4,486	3,488	5,350	9,727	*	*	*	*
Oats/'Aja'	338	295	*	*	*	-	-	-
Rice	*	*	*	*	*	*	*	*
Pulse	235,795	107,343	156,044	507,666	17,190	267,639	35,240	39,574
Horse/Faba beans	70,379	37,955	47,425	192,966	7,187	88,124	14,763	15,764
Field peas	49,663	18,221	19,330	59,225	3,324	32,947	4,668	4,759
White Haricot	5,142	1,508	900	32,041	603	*	*	*
Red Haricot beans	97,694	48,636	86,316	273,023	5,718	170,336	15,383	18,748
Chick peas	*	566	504	4,381	*	4,347	*	*
Lentils	603	277	632	4,728	*	*	*	*
Vetch/Grass peas	*	*	-	*	*	-	-	-
Soya beans	*	*	-	*	*	-	-	-
Fenugreek	122	72	*	9,489	39	*	*	*
Mung bean/'Masho'	*	*	*	-	-	-	-	-
Gibto	*	*	*	*	*	-	-	-
Oil Seeds	5,426	1,196	2,177	32,331	422	*	*	*
Nueg	*	*	*	-	-	-	-	-
Linseed	853	179	110	7,266	*	*	*	*
Ground nuts	1,045	*	*	*	*	-	-	-
Safflower	309	*	*	*	*	-	-	-
Sesame	*	*	*	-	-	*	*	*
Rapeseed	860	572	1,692	22,506	*	-	-	-
Vegetables	51,223	41,622	44,708	1,318,493	18,688	35,042	1,225	1,682
Lettuce	17	*	-	*	*	-	-	-
Head Cabbage	1,639	1,469	6,836	44,214	407	*	*	*
Ethiopian Cabbage	23,817	18,166	7,381	1,227,392	15,855	24,016	284	610
Tomatoes	1,091	*	*	21,173	216	-	-	-
Green peppers	1,612	888	1,244	161,955	696	4,420	*	60
Red papers	22,941	20,231	27,262	64,933	1,477	6,029	773	*
Swiss chard	*	*	*	12,766	23	*	*	*
Root Crops	95,015	44,984	58,923	1,080,001	30,467	46,172	1,672	2,088
Beet root	524	*	*	58,606	115	*	*	*
Carrot	*	*	*	27,713	*	*	*	*
Onion	1,298	772	*	66,029	371	*	*	*
Potatoes	10,771	9,135	24,501	87,887	1,679	9,633	313	472
Yam	5,212	2,223	*	178,389	2,067	3,183	*	*
Garlic	984	627	249	83,464	*	*	*	*
Taro/'Godere'	40,543	17,848	5,909	744,454	16,218	10,382	199	341
Sweet potatoes	34,868	13,348	*	307,296	9,325	20,373	871	701
Other Temporary	43,088	15,661	47,803	873,020	10,839	19,448	342	715
Fruit Crops	65,352	22,158		1,039,585	19,396			
Avocado	13,382	5,436		577,266	5,284			
Bananas	43,346	13,939		622,565	11,747			
Guava	270	110		30,762	110			
Lemons	219	87		29,131	87			
Mangos	5,188	1,537		205,366	1,347			
Oranges	863	468		96,235	359			
Papayas	1,480	528		119,992	410			
Pineapples	604	53		9,191	52			
Stimulant Crops	285,298	104,304		1,391,209	87,144			
Chat	66,069	39,528		332,008	28,176			
Coffee	217,080	64,236		1,265,961	58,485			
Hops/'Gesho'	2,148	540		101,416	484			
Enset	128,359	93,305		1,966,404	92,266			
Sugar Cane	16,384	6,472		315,917	5,032			
Other Permanent	5,129	1,283		380,916	1,068			

(Table 1: cont'd.)

SNNP Region, 2017/18

Crop type	UREA			UREA + DAP			NPS		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	136,342	16,270	20,995	344,214	97,774	279,083	492,758	131,988	149,950
Cereals	60,881	9,914	8,456	311,815	74,043	169,214	383,514	97,031	95,920
Teff	18,805	5,311	3,570	93,427	19,543	32,293	140,471	37,376	34,915
Barley	*	*	*	58,885	8,251	10,731	63,618	6,784	6,078
Wheat	*	*	*	68,840	13,828	28,896	63,890	12,286	12,463
Maize	23,478	1,662	1,760	169,104	29,261	89,691	208,224	37,603	35,374
Sorghum	8,989	*	*	27,893	2,251	6,242	44,075	1,788	5,705
Finger millet	*	*	*	*	*	*	24,278	1,149	1,281
Oats/'Aja'	-	-	-	*	*	*	*	*	*
Rice	*	*	*	*	*	*	-	-	-
Pulse	23,474	1,858	2,349	108,340	8,193	22,132	251,245	25,684	37,865
Horse/Faba beans	*	*	*	26,079	1,216	2,177	115,039	9,923	17,690
Field peas	5,360	*	*	16,507	1,143	1,630	50,116	6,026	6,903
White Haricot beans	-	-	-	*	*	*	*	*	*
Red Haricot beans	9,969	452	1,000	72,116	5,246	17,600	115,361	9,479	12,428
Chick peas	-	-	-	*	*	*	-	-	-
Lentils	*	*	*	*	*	*	4,244	*	96
Veitch/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	*	*	*	*	*	*
Mung bean/'Masho'	-	-	-	-	-	-	*	*	*
Gibto	-	-	-	-	-	-	*	*	*
Oil Seeds	*	*	*	*	*	*	9,555	*	617
Nueg	-	-	-	-	-	-	*	*	*
Linseed	-	-	-	*	*	*	2,761	49	48
Ground nuts	-	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	*	*	*
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	*	*	*	*	*	*	5,748	115	380
Vegetables	27,655	700	1,391	43,967	6,567	*	32,322	2,292	3,225
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	4,196	*	*	*	*	*	3,242	*	*
Ethiopian Cabbage	18,226	316	533	20,418	383	1,453	20,641	428	1,131
Tomatoes	*	*	*	*	*	*	2,204	*	*
Green peppers	6,311	65	*	*	*	*	2,657	*	*
Red papers	3,995	*	*	22,344	5,409	*	8,590	1,742	1,637
Swiss chard	-	-	-	*	*	*	-	-	-
Root Crops	33,515	1,444	2,240	37,612	1,660	*	56,080	1,700	2,498
Beet root	*	*	*	*	*	*	2,630	*	*
Carrot	*	*	*	-	-	-	3,156	*	*
Onion	2,247	*	*	*	*	*	*	*	*
Potatoes	*	*	*	13,765	*	*	26,466	911	1,407
Yam	*	*	*	*	*	*	*	*	*
Garlic	3,499	*	*	*	*	*	*	*	*
Taro/'Godere'	17,610	533	1,559	12,282	275	*	13,015	*	714
Sweet potatoes	11,787	866	571	10,685	321	*	7,602	*	225
Other Temporary	13,339	408	1,145	29,427	771	*	31,221	761	1,815
Fruit Crops									
Avocado									
Bananas									
Guava									
Lemons									
Mangos									
Oranges									
Papayas									
Pineapples									
Stimulant Crops									
Chat									
Coffee									
Hops/'Gesho'									
Enset									
Sugar Cane									
Other Permanent									

(Table 1: cont'd.)

SNNP Region, 2017/18

Crop type	NPS & UREA			INDIGENOUS SEED			IMPROVED SEED		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	822,379	382,686	746,070	3,497,656	1,608,219	598,876	844,520	214,983	103,787
Cereals	805,622	334,808	593,798	2,314,324	687,071	424,004	738,187	205,062	99,787
<i>Teff</i>	348,895	99,966	158,644	935,359	231,855	114,078	53,071	16,270	5,675
<i>Barley</i>	165,444	24,311	30,475	545,278	79,785	64,104	10,269	1,376	*
<i>Wheat</i>	293,151	85,394	158,877	446,339	97,531	141,374	99,940	29,716	44,463
<i>Maize</i>	458,654	116,332	215,696	1,221,913	157,559	58,495	647,779	156,977	47,026
<i>Sorghum</i>	96,732	6,687	25,746	744,725	111,508	36,447	*	*	*
<i>Finger millet</i>	32,824	2,033	3,946	83,058	4,448	2,430	*	*	*
<i>Oats/'Aja'</i>	*	*	*	10,303	337	391	*	*	-
<i>Rice</i>	*	*	*	16,494	*	*	-	-	-
Pulse	250,170	19,178	54,124	1,902,473	230,861	173,571	42,053	4,935	3,991
<i>Horse/Faba beans</i>	84,532	4,309	10,924	743,075	70,151	68,349	2,674	*	*
<i>Field peas</i>	46,851	2,219	5,568	427,605	49,336	33,001	2,437	*	*
<i>White Haricot</i>	4,491	162	*	81,166	5,096	1,046	*	*	*
<i>Red Haricot beans</i>	145,444	12,357	36,541	1,137,919	93,847	65,683	35,130	3,847	2,777
<i>Chick peas</i>	*	*	*	29,286	*	*	*	*	*
<i>Lentils</i>	5,061	31	*	35,043	603	638	-	-	-
<i>Vetch/Grass peas</i>	-	-	-	*	*	*	-	-	-
<i>Soya beans</i>	-	-	-	9,050	*	*	-	-	-
<i>Fenugreek</i>	*	*	*	22,759	122	46	-	-	-
<i>Mung bean/'Masho'</i>	*	*	*	17,898	*	796	*	*	*
<i>Gibto</i>	-	-	-	*	*	*	-	-	-
Oil Seeds	10,312	206	1,154	137,710	5,364	1,300	*	*	*
<i>Nueg</i>	-	-	-	*	*	*	-	-	-
<i>Linseed</i>	3,863	26	22	44,725	853	281	-	-	-
<i>Ground nuts</i>	*	*	*	17,065	1,045	657	-	-	-
<i>Safflower</i>	*	*	*	15,111	294	36	*	*	*
<i>Sesame</i>	-	-	-	*	*	*	-	-	-
<i>Rapeseed</i>	4,988	116	*	55,184	813	121	*	*	-
Vegetables	89,270	12,151	24,224	1,879,463	50,777	-	12,577	*	-
<i>Lettuce</i>	-	-	-	6,940	17	-	-	-	-
<i>Head Cabbage</i>	13,035	*	*	84,744	1,499	-	6,545	*	-
<i>Ethiopian Cabbage</i>	36,976	900	3,654	1,686,868	23,801	-	*	*	-
<i>Tomatoes</i>	*	*	*	47,939	844	-	*	*	-
<i>Green peppers</i>	*	*	*	293,146	1,606	-	*	*	-
<i>Red papers</i>	50,255	10,614	16,667	188,101	22,909	-	*	*	-
<i>Swiss chard</i>	*	*	*	18,292	*	-	3,474	*	-
Root Crops	117,299	8,041	28,285	1,852,843	94,603	-	25,075	*	-
<i>Beet root</i>	5,125	*	*	87,806	508	-	8,472	*	-
<i>Carrot</i>	*	*	*	57,291	*	-	7,791	12	-
<i>Onion</i>	6,680	*	*	116,903	1,012	-	*	*	-
<i>Potatoes</i>	69,280	5,277	20,392	230,530	10,751	-	*	*	-
<i>Yam</i>	*	*	*	311,789	5,211	-	*	*	-
<i>Garlic</i>	*	*	*	143,559	966	-	*	*	-
<i>Taro/'Godere'</i>	15,471	252	1,394	1,308,491	40,519	-	4,036	*	-
<i>Sweet potatoes</i>	29,196	1,692	1,446	634,970	34,834	-	*	*	-
Other Temporary	86,295	2,540	21,423	1,602,905	42,936	-	8,507	*	-
Fruit Crops				1,962,936	65,181				
<i>Avocado</i>				1,152,885	13,296				
<i>Bananas</i>				1,345,018	43,330				
<i>Guava</i>				77,201	266				
<i>Lemons</i>				88,927	213				
<i>Mangos</i>				608,019	5,147				
<i>Oranges</i>				198,933	860				
<i>Papayas</i>				329,708	1,465				
<i>Pineapples</i>				43,234	604				
Stimulant Crops	73,925	3,959	12,881	2,323,155	281,820		74,417	3,478	-
<i>Chat</i>				659,630	66,012				
<i>Coffee</i>				2,124,742	213,659		74,417	3,421	-
<i>Hops/'Gesho'</i>				268,667	2,148				
Enset				2,658,725	128,129				
Sugar Cane				680,678	16,384				
Other Permanent				918,525	5,093				

(Table 1: Cont'd) **SNNP Region, 2017/18**

<i>Crop type</i>	<i>PESTICIDE</i>		<i>IRRIGATION</i>		<i>EXTENSION PACKAGE</i>	
	<i>Holder</i>	<i>Hectare</i>	<i>Holder</i>	<i>Hectare</i>	<i>Holder</i>	<i>Hectare</i>
All	728,098	290,062	113,682	31,172	1,402,808	509,628
Cereals	662,376	263,497	47,665	9,802	1,252,346	410,562
<i>Teff</i>	391,125	116,616	*	*	417,497	111,687
<i>Barley</i>	108,546	16,029	*	*	176,952	25,081
<i>Wheat</i>	304,403	91,944	*	*	298,339	81,776
<i>Maize</i>	109,139	25,239	39,088	5,835	768,089	181,502
<i>Sorghum</i>	50,620	11,887	11,698	1,385	119,981	9,040
<i>Finger millet</i>	15,650	812	-	-	15,061	527
<i>Oats/'Aja'</i>	*	*	-	-	*	*
<i>Rice</i>	*	*	-	-	*	*
Pulse	49,173	7,461	21,664	*	569,645	64,702
<i>Horse/Faba beans</i>	23,332	2,279	*	*	201,835	21,388
<i>Field peas</i>	5,853	*	-	-	81,541	10,046
<i>White Haricot beans</i>	-	-	*	*	6,878	*
<i>Red Haricot beans</i>	15,613	*	17,040	*	349,334	31,612
<i>Chick peas</i>	-	-	-	-	5,995	655
<i>Lentils</i>	*	*	-	-	3,695	*
<i>Vetch/Grass peas</i>	*	*	-	-	-	-
<i>Soya beans</i>	-	-	-	-	-	-
<i>Fenugreek</i>	*	*	-	-	-	-
<i>Mung bean/'Masho'</i>	*	*	*	*	3,598	*
<i>Gibto</i>	-	-	-	-	*	*
Oil Seeds	*	*	*	*	15,059	529
<i>Nueg</i>	-	-	-	-	-	-
<i>Linseed</i>	*	*	-	-	4,054	49
<i>Ground nuts</i>	-	-	-	-	*	*
<i>Safflower</i>	-	-	-	-	*	*
<i>Sesame</i>	-	-	-	-	*	*
<i>Rapeseed</i>	-	-	*	*	8,458	172
Vegetables	38,688	3,808	26,290	500	109,585	7,232
<i>Lettuce</i>	-	-	-	-	*	*
<i>Head Cabbage</i>	12,531	641	*	*	11,300	424
<i>Ethiopian Cabbage</i>	19,180	341	21,203	*	64,264	1,301
<i>Tomatoes</i>	*	*	*	*	3,517	*
<i>Green peppers</i>	*	*	*	*	8,465	126
<i>Red papers</i>	8,824	*	*	*	27,534	4,902
<i>Swiss chard</i>	*	*	-	-	8,183	*
Root Crops	50,707	4,183	9,629	*	179,455	8,053
<i>Beet root</i>	*	*	*	*	10,791	*
<i>Carrot</i>	*	*	-	-	11,329	*
<i>Onion</i>	*	*	*	*	12,691	*
<i>Potatoes</i>	40,218	3,560	*	*	42,224	2,115
<i>Yam</i>	-	-	-	-	10,788	156
<i>Garlic</i>	*	*	*	*	7,131	*
<i>Taro/'Godere'</i>	3,699	*	*	*	61,996	1,564
<i>Sweet potatoes</i>	*	*	*	*	67,134	3,591
Other Temporary	*	*	28,482	*	146,277	4,486
Fruit Crops	6,283	*	52,588	*	79,875	2,509
<i>Avocado</i>	*	*	21,212	263	15,450	167
<i>Bananas</i>	*	*	37,723	*	58,010	1,994
<i>Guava</i>	-	-	*	*	*	*
<i>Lemons</i>	-	-	*	*	-	-
<i>Mangos</i>	*	*	19,657	*	8,022	*
<i>Oranges</i>	*	*	*	*	5,561	*
<i>Papayas</i>	*	*	8,115	23	3,981	*
<i>Pineapples</i>	-	-	-	-	*	*
Stimulant Crops	58,445	10,625	52,882	8,372	166,740	9,860
<i>Chat</i>	39,144	5,823	*	*	52,227	3,728
<i>Coffee</i>	18,744	*	44,139	3,538	122,998	6,054
<i>Hops/'Gesho'</i>	*	*	*	*	5,644	77
Enset	10,274	229	41,028	879		
Sugar Cane	*	*	7,578	*	14,584	628
Other Permanent	*	*	20,240	*	21,087	229

Table1: Number of Holders, Inputs Applied Area and Quantity of Inputs used, 2017/18

Gambela Region

Crop type	All Crop Area	All Fertilizers		Natural		DAP		
		Hectare	Quintal	Holder	Hectare	Holder	Hectare	Quintal
All	14,861	*	-	*	*	-	-	-
Cereals	6,746	-	-	-	-	-	-	-
Teff	*	-	-	-	-	-	-	-
Barley	*	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	4,752	-	-	-	-	-	-	-
Sorghum	1,704	-	-	-	-	-	-	-
Finger millet	*	-	-	-	-	-	-	-
Oats/'Aja'	*	-	-	-	-	-	-	-
Rice	*	-	-	-	-	-	-	-
Pulse	*	-	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
White Haricot	3	-	-	-	-	-	-	-
Red Haricot beans	8	-	-	-	-	-	-	-
Chick peas	*	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung bean/'Masho"	*	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oil Seeds	*	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	*	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	101	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	35	-	-	-	-	-	-	-
Tomatoes	*	-	-	-	-	-	-	-
Green peppers	*	-	-	-	-	-	-	-
Red papers	*	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root Crops	111	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	*	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Yam	5	-	-	-	-	-	-	-
Garlic	*	-	-	-	-	-	-	-
Taro/'Godere'	19	-	-	-	-	-	-	-
Sweet potatoes	80	-	-	-	-	-	-	-
Other Temporary	694	-	-	-	-	-	-	-
Fruit Crops	546	*	-	*	*	-	-	-
Avocado	150	-	-	-	-	-	-	-
Bananas	287	-	-	-	-	-	-	-
Guava	*	-	-	-	-	-	-	-
Lemons	3	-	-	-	-	-	-	-
Mangos	53	*	-	*	*	-	-	-
Oranges	5	-	-	-	-	-	-	-
Papayas	43	-	-	-	-	-	-	-
Pineapples	*	-	-	-	-	-	-	-
Stimulant Crops	6,529	-	-	-	-	-	-	-
Chat	99	-	-	-	-	-	-	-
Coffee	6,415	-	-	-	-	-	-	-
Hops/'Gesho'	*	-	-	-	-	-	-	-
Enset	45	*	-	*	*	-	-	-
Sugar Cane	35	-	-	-	-	-	-	-
Other Permanent	4	-	-	-	-	-	-	-

(Table 1: cont'd.)

Gambela Region, 2017/18

Crop type	UREA			UREA + DAP			NPS		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	-	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
White Haricot beans	-	-	-	-	-	-	-	-	-
Red Haricot beans	-	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/'Masho'	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root Crops	-	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-
Fruit Crops									
Avocado									
Bananas									
Guava									
Lemons									
Mangos									
Oranges									
Papayas									
Pineapples									
Stimulant Crops									
Chat									
Coffee									
Hops/'Gesho'									
Enset									
Sugar Cane									
Other Permanent									

(Table 1: cont'd.)

Gambela Region, 2017/18

Crop type	NPS & UREA			INDIGENOUS SEED			IMPROVED SEED		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	-	-	-	36,820	14,861	2,430	-	-	-
Cereals	-	-	-	30,749	6,746	2,411	-	-	-
Teff	-	-	-	*	*	*	-	-	-
Barley	-	-	-	*	*	*	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	-	-	-	24,029	4,752	1,992	-	-	-
Sorghum	-	-	-	7,164	1,704	270	-	-	-
Finger millet	-	-	-	*	*	*	-	-	-
Oats/'Aja'	-	-	-	*	*	-	-	-	-
Rice	-	-	-	*	*	*	-	-	-
Pulse	-	-	-	2,906	*	*	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
White Haricot	-	-	-	1,029	3	*	-	-	-
Red Haricot beans	-	-	-	1,623	8	1	-	-	-
Chick peas	-	-	-	*	*	*	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/'Masho'	-	-	-	*	*	*	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	-	-	-	*	*	*	-	-	-
Nueg	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	*	*	*	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	-	-	-	6,337	101	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	4,039	35	-	-	-	-
Tomatoes	-	-	-	597	*	-	-	-	-
Green peppers	-	-	-	1,100	*	-	-	-	-
Red papers	-	-	-	1,447	*	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root Crops	-	-	-	6,137	111	-	-	-	-
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	*	*	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-
Yam	-	-	-	1,136	5	-	-	-	-
Garlic	-	-	-	*	*	-	-	-	-
Taro/'Godere'	-	-	-	3,048	19	-	-	-	-
Sweet potatoes	-	-	-	2,978	80	-	-	-	-
Other Temporary	-	-	-	10,087	694	-	-	-	-
Fruit Crops	-	-	-	14,130	546	-	-	-	-
Avocado	-	-	-	4,757	150	-	-	-	-
Bananas	-	-	-	6,790	287	-	-	-	-
Guava	-	-	-	666	*	-	-	-	-
Lemons	-	-	-	1,329	3	-	-	-	-
Mangos	-	-	-	6,297	53	-	-	-	-
Oranges	-	-	-	571	5	-	-	-	-
Papayas	-	-	-	6,872	43	-	-	-	-
Pineapples	-	-	-	*	*	-	-	-	-
Stimulant Crops	-	-	-	8,684	6,529	-	-	-	-
Chat	-	-	-	1,566	99	-	-	-	-
Coffee	-	-	-	8,504	6,415	-	-	-	-
Hops/'Gesho'	-	-	-	2,061	*	-	-	-	-
Enset	-	-	-	5,158	45	-	-	-	-
Sugar Cane	-	-	-	3,980	35	-	-	-	-
Other Permanent	-	-	-	4,658	4	-	-	-	-

(Table 1: Cont'd) Gambela Region, 2017/18

Crop type	PESTICIDE		IRRIGATION		EXTENSION PACKAGE	
	Holder	Hectare	Holder	Hectare	Holder	Hectare
All	2,398	1,360	*	*	892	*
Cereals	2,183	751	*	*	*	*
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	*	*	*	*	*	*
Sorghum	1,650	731	-	-	*	*
Finger millet	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulse	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
White Haricot beans	-	-	-	-	-	-
Red Haricot beans	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Mung bean/'Masho'	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-
Nueg	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Vegetables	-	-	*	*	*	*
Lettuce	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-
Tomatoes	-	-	*	*	-	-
Green peppers	-	-	-	-	-	-
Red papers	-	-	-	-	*	*
Swiss chard	-	-	-	-	-	-
Root Crops	-	-	-	-	*	*
Beet root	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Yam	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	*	*
Other Temporary	*	*	-	-	*	*
Fruit Crops	-	-	-	-	*	*
Avocado	-	-	-	-	*	*
Bananas	-	-	-	-	*	*
Guava	-	-	-	-	-	-
Lemons	-	-	-	-	-	-
Mangos	-	-	-	-	-	-
Oranges	-	-	-	-	-	-
Papayas	-	-	-	-	*	*
Pineapples	-	-	-	-	-	-
Stimulant Crops	*	*	-	-	*	*
Chat	-	-	-	-	-	-
Coffee	*	*	-	-	*	*
Hops/'Gesho'	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-
Other Permanent	-	-	-	-	*	*

Table1: Number of Holders, Inputs Applied Area and Quantity of Inputs used, 2017/18

Hararie Region

Crop type	All Crop Area	All Fertilizers		Natural		DAP		
		Hectare	Quintal	Holder	Hectare	Holder	Hectare	Quintal
All	19,943	15,200	28,535	27,515	7,058	2,761	790	1,794
Cereals	8,826	7,436	14,324	20,247	3,518	2,078	*	786
Teff	-	-	-	-	-	-	-	-
Barley	*	*	*	-	-	-	-	-
Wheat	*	*	448	*	*	*	*	*
Maize	1,398	1,154	5,267	11,354	400	1,180	42	*
Sorghum	7,316	6,175	8,551	16,585	3,106	1,484	*	*
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	23	*	*	563	*	-	-	-
Horse/Faba beans	*	*	-	*	*	-	-	-
Field peas	-	-	-	-	-	-	-	-
White Haricot	*	*	*	-	-	-	-	-
Red Haricot beans	*	*	-	*	*	-	-	-
Chick peas	*	*	-	*	*	-	-	-
Lentils	*	*	*	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung bean/'Masho'	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oil Seeds	2,722	1,780	806	9,657	1,416	*	*	*
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	2,659	1,763	806	9,361	1,399	*	*	*
Safflower	-	-	-	-	-	-	-	-
Sesame	*	*	-	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	*	*	*	*	*	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	*	*	*	*	*	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	*	*	-	*	*	-	-	-
Green peppers	*	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	*	*	*	-	-	-	-	-
Root Crops	92	83	*	1,504	9	*	*	*
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	*	*	*	*	*	-	-	-
Yam	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	76	66	*	1,398	7	*	*	*
Other Temporary	35	29	*	4,493	28	-	-	-
Fruit Crops	681	*		12,411	267			
Avocado	*	*		*	*			
Bananas	*	15		4,480	15			
Guava	59	*		2,333	*			
Lemons	*	*		*	*			
Mangos	397	*		6,384	*			
Oranges	*	*		*	*			
Papayas	*	*		2,839	*			
Pineapples	-	-		-	-			
Stimulant Crops	6,939	5,511		15,990	1,789			
Chat	6,872	5,460		15,871	1,759			
Coffee	*	*		*	*			
Hops/'Gesho'	*	-		-	-			
Enset	*	-		-	-			
Sugar Cane	*	-		-	-			
Other Permanent	27	*		3,053	*			

(Table 1: cont'd.)

Hararie Region, 2017/18

Crop type	UREA			UREA + DAP			NPS		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	7,113	2,725	6,252	6,514	2,668	11,786	*	*	*
Cereals	6,494	1,556	3,337	6,383	1,290	6,350	*	*	*
Teff	-	-	-	-	-	-	-	-	-
Barley	-	-	-	*	*	*	-	-	-
Wheat	*	*	*	*	*	*	-	-	-
Maize	3,786	274	1,110	5,444	326	2,726	*	*	*
Sorghum	5,850	1,274	2,144	5,187	898	3,283	*	*	*
Finger millet	-	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulse	*	*	*	*	*	*	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
White Haricot beans	*	*	*	-	-	-	-	-	-
Red Haricot beans	-	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	*	*	*	-	-	-
Veich/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/'Masho'	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	1,202	84	*	*	*	*	*	*	*
Nueg	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	1,202	84	*	*	*	*	*	*	*
Safflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root Crops	*	*	*	667	*	*	*	*	*
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	*	*	*	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	*	*	*	667	*	*	*	*	*
Other Temporary	-	-	-	*	*	*	-	-	-
Fruit Crops									
Avocado									
Bananas									
Guava									
Lemons									
Mangos									
Oranges									
Papayas									
Pineapples									
Stimulant Crops									
Chat									
Coffee									
Hops/'Gesho'									
Enset									
Sugar Cane									
Other Permanent									

(Table 1: cont'd.)

Hararie Region, 2017/18

Crop type	NPS & UREA			INDIGENOUS SEED			IMPROVED SEED		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	*	*	*	38,886	19,813	6,144	3,026	130	83
Cereals	*	*	*	37,295	8,715	3,891	2,582	111	83
Teff	-	-	-	-	-	-	-	-	-
Barley	-	-	-	*	*	*	-	-	-
Wheat	-	-	-	2,307	44	74	*	*	*
Maize	*	*	*	22,524	1,331	812	1,642	67	39
Sorghum	*	*	*	33,620	7,316	2,984	-	-	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulse	-	-	-	1,188	23	11	-	-	-
Horse/Faba beans	-	-	-	*	*	*	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
White Haricot	-	-	-	*	*	*	-	-	-
Red Haricot beans	-	-	-	*	*	*	-	-	-
Chick peas	-	-	-	*	*	*	-	-	-
Lentils	-	-	-	*	*	*	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/'Masho'	-	-	-	-	-	-	-	-	-
Gibbo	-	-	-	-	-	-	-	-	-
Oil Seeds	*	*	*	14,631	2,722	2,242	-	-	-
Nueg	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	*	*	*	14,517	2,659	2,233	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	1,448	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	*	*	*	*	*	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	*	*	*	*	*	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	*	*	-	-	-	-
Green peppers	-	-	-	*	*	-	-	-	-
Red papers	-	-	-	-	-	-	-	-	-
Swiss chard	*	*	*	*	*	-	-	-	-
Root Crops	*	*	*	3,730	92	-	-	-	-
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	*	*	*	*	*	-	-	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	3,202	76	-	-	-	-
Other Temporary	*	*	*	5,854	35	-	-	-	-
Fruit Crops				22,644	672				
Avocado				*	*				
Bananas				6,902	*				
Guava				7,632	59				
Lemons				5,722	*				
Mangos				15,300	397				
Oranges				*	*				
Papayas				4,131	*				
Pineapples				-	-				
Stimulant Crops	*	*	*	35,696	6,929		*	*	-
Chat				35,696	6,872				
Coffee				3,275	*		*	*	-
Hops/'Geshe'				*	*				
Enset				*	*				
Sugar Cane				*	*				
Other Permanent				5,331	27				

(Table 1: Cont'd) Hararie Region, 2017/18

Crop type	PESTICIDE		IRRIGATION		EXTENSION PACKAGE	
	Holder	Hectare	Holder	Hectare	Holder	Hectare
All	5,351	708	14,053	4,265	15,825	6,205
Cereals	*	*	7,928	1,361	15,443	3,331
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	*	*	2,314	*
Maize	*	*	5,307	429	11,284	690
Sorghum	*	*	5,852	928	13,057	2,579
Finger millet	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulse	-	-	-	-	*	*
Horse/Faba beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
White Haricot beans	-	-	-	-	*	*
Red Haricot beans	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	-	*	*
Vetch/Grass peas	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Mung bean/'Masho"	-	-	-	-	-	-
Gibbo	-	-	-	-	-	-
Oil Seeds	*	*	1,735	164	1,813	*
Nueg	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Ground nuts	*	*	1,735	164	1,813	*
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Vegetables	-	-	*	*	-	-
Lettuce	-	-	-	-	-	-
Head Cabbage	-	-	*	*	-	-
Ethiopian Cabbage	-	-	-	-	-	-
Tomatoes	-	-	*	*	-	-
Green peppers	-	-	*	*	-	-
Red papers	-	-	-	-	-	-
Swiss chard	-	-	*	*	-	-
Root Crops	-	-	*	*	1,628	54
Beet root	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	-	-	-	-	-	-
Potatoes	-	-	*	*	*	*
Yam	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-
Sweet potatoes	-	-	*	*	*	*
Other Temporary	-	-	*	*	*	*
Fruit Crops	*	*	7,240	258	*	*
Avocado	-	-	*	*	-	-
Bananas	-	-	2,253	*	-	-
Guava	*	*	*	*	*	*
Lemons	-	-	*	*	*	*
Mangos	*	*	4,982	93	*	*
Oranges	-	-	-	-	-	-
Papayas	-	-	*	*	-	-
Pineapples	-	-	-	-	-	-
Stimulant Crops	4,989	697	12,317	1,928	14,509	2,595
Chat	4,989	697	12,317	1,890	14,509	2,576
Coffee	-	-	*	*	752	*
Hops/'Gesho'	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Sugar Cane	-	-	*	*	-	-
Other Permanent	-	-	*	*	*	*

Table1: Number of Holders, Inputs Applied Area and Quantity of Inputs used, 2017/18

Dire Dawa Region

Crop type	All Crop Area	All Fertilizers		Natural		DAP		
		Hectare	Quintal	Holder	Hectare	Holder	Hectare	Quintal
All	13,604		*			*	*	*
Cereals	11,125		*			*	*	*
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	304		*			*	*	*
Sorghum	10,821		*			-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	526		*			-	-	-
Horse/Faba	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
White Haricot	206		-			-	-	-
Red Haricot	319		*			-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch/Grass	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oil Seeds	*	*	*			*	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	*	*	*	*	*	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	103	*	-		*	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	101	*	*		*	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian	*	*	-	*	*	-	-	-
Tomatoes	*	*	*		*	-	-	-
Green peppers	16	*	-		*	-	-	-
Red papers	*	*	-	*	*	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root Crops	70		*			*	*	*
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	*	*	*	*	*	*	*	*
Potatoes	-	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-
Garlic	*	*	-	*	*	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	27	*	-		*	-	-	-
Other	23	*	-		*	-	-	-
Fruit Crops	97	*			*			
Avocado	-	-		-	-			
Bananas	*	*		*	*			
Guava	9	*			*			
Lemons	1	*		*	*			
Mangos	14	*		*	*			
Oranges	*	*		*	*			
Papayas	*	*		*	*			
Pineapples	-	-		-	-			
Stimulant	1,277							
Chat	1,140							
Coffee	*	*		*	*			
Hops/'Gesho'	-	-		-	-			
Enset	-	-		-	-			
Sugar Cane	-	-		-	-			
Other	9							

(Table 1: cont'd.)

Dire Dawa Region, 2017/18

Crop type	UREA			UREA + DAP			NPS		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	*	*	*	*	*	*	-	-	-
Cereals	*	*	*	*	*	*	-	-	-
Teff	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	*	*	*	*	*	*	-	-	-
Sorghum	*	*	*	*	*	*	-	-	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulse	*	*	*	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
White Haricot beans	-	-	-	-	-	-	-	-	-
Red Haricot beans	*	*	*	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Veich/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/'Masho'	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	*	*	*	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	*	*	*	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	*	*	*	*	*	*	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-	-
Tomatoes	*	*	*	*	*	*	-	-	-
Green peppers	-	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root Crops	-	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-	-
Fruit Crops									
Avocado									
Bananas									
Guava									
Lemons									
Mangos									
Oranges									
Papayas									
Pineapples									
Stimulant Crops									
Chat									
Coffee									
Hops/'Gesho'									
Enset									
Sugar Cane									
Other Permanent									

(Table 1: cont'd.)

Dire Dawa Region, 2017/18

Crop type	NPS & UREA			INDIGENOUS SEED			IMPROVED SEED		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	Quintal
All	-	-	-	26,673	13,501	2,891	1,264	*	*
Cereals	-	-	-	25,938	11,036	2,603	*	*	*
Teff	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	-	-	-	6,124	266	159	*	*	*
Sorghum	-	-	-	25,553	10,769	2,444	*	*	*
Finger millet	-	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulse	-	-	-	10,934	526	163	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
White Haricot	-	-	-	4,274	206	*	-	-	-
Red Haricot beans	-	-	-	7,154	319	89	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Mung bean/'Masho'	-	-	-	-	-	-	-	-	-
Gibbo	-	-	-	-	-	-	-	-	-
Oil Seeds	-	-	-	6,127	*	*	-	-	-
Nueg	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	*	*	*	-	-	-
Safflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	3,021	103	5	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Vegetables	-	-	-	3,922	100	-	*	*	-
Lettuce	-	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	*	*	-	-	-	-
Tomatoes	-	-	-	2,847	*	-	*	*	-
Green peppers	-	-	-	1,286	16	-	-	-	-
Red papers	-	-	-	*	*	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Root Crops	-	-	-	2,945	70	-	-	-	-
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onion	-	-	-	*	*	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	*	*	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	1,730	27	-	-	-	-
Other Temporary	-	-	-	1,720	23	-	-	-	-
Fruit Crops				7,328	91				
Avocado				-	-				
Bananas				*	*				
Guava				1,988	8				
Lemons				592	1				
Mangos				2,368	13				
Oranges				*	*				
Papayas				*	*				
Pineapples				-	-				
Stimulant Crops	-	-	-	12,600	1,272		*	*	-
Chat				12,000	1,140				
Coffee				2,379	*		*	*	-
Hops/'Gesho'				-	-				
Enset				-	-				
Sugar Cane				-	-				
Other Permanent				2,788	9				

(Table 1: Cont'd) Dire Dawa Region, 2017/18

Crop type	PESTICIDE		IRRIGATION		EXTENSION PACKAGE	
	Holder	Hectare	Holder	Hectare	Holder	Hectare
All	561	22	4,445	*	*	*
Cereals	*	*	3,883	*	*	*
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	-	-	*	*	*	*
Sorghum	*	*	2,819	*	*	*
Finger millet	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulse	-	-	*	*	-	-
Horse/Faba beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
White Haricot beans	-	-	*	*	-	-
Red Haricot beans	-	-	*	*	-	-
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Mung bean/'Masho"	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oil Seeds	-	-	*	*	*	*
Nueg	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Ground nuts	-	-	-	-	*	*
Safflower	-	-	-	-	-	-
Sesame	-	-	*	*	-	-
Rapeseed	-	-	-	-	-	-
Vegetables	*	*	*	*	*	*
Lettuce	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-
Tomatoes	*	*	*	*	*	*
Green peppers	-	-	*	*	-	-
Red papers	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Root Crops	-	-	*	*	-	-
Beet root	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Yam	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-
Sweet potatoes	-	-	*	*	-	-
Other Temporary	*	*	-	-	-	-
Fruit Crops	*	*	*	*	-	-
Avocado	-	-	-	-	-	-
Bananas	-	-	*	*	-	-
Guava	-	-	*	*	-	-
Lemons	-	-	-	-	-	-
Mangos	*	*	*	*	-	-
Oranges	-	-	*	*	-	-
Papayas	*	*	*	*	-	-
Pineapples	-	-	-	-	-	-
Stimulant Crops	*	*	3,296	*	*	*
Chat	*	*	2,140	*	*	*
Coffee	-	-	*	*	-	-
Hops/'Geshe'	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-
Other Permanent	-	-	*	*	-	-

Table 2. Number of Holders Applying Inputs by Educational Status, 2017/18

Ethiopia					
Educational Status of Holders	Holders	Fertilizer	Improved seed	Pesticide	Irrigation
Illiterate	9,074,074	3,454,541	2,092,627	2,890,369	769,653
Literate (informal)	1,520,744	674,199	422,379	568,719	198,422
Grades 1 – 3	1,963,696	862,235	621,718	751,421	134,405
Grades 4 – 6	2,393,537	1,052,645	741,367	862,334	175,454
Grades 7 – 8	1,105,827	509,174	356,153	442,149	81,470
Grades 9 – 11	698,290	313,308	228,546	268,908	31,685
Grade 12 complete	66,006	32,086	26,282	27,853	*
Above grade 12	169,026	67,789	57,114	36,260	8,929
Total	16,991,200	6,965,978	4,546,186	5,848,013	1,403,052

Table 2.1 Number of Holders Applying Inputs by Educational Status

Tigray Region					
Educational Status of Holders	Holders	Fertilizer	Improved seed	Pesticide	Irrigation
Illiterate	518,648	263,284	42,868	149,610	83,593
Literate (informal)	143,085	84,272	19,684	52,528	28,952
Grades 1 – 3	99,787	57,543	17,324	33,790	20,350
Grades 4 – 6	111,209	63,672	15,926	48,365	25,624
Grades 7 – 8	53,468	32,572	13,136	15,428	12,413
Grades 9 – 11	37,744	23,122	9,791	16,169	10,866
Grade 12 complete	*	*	*	*	-
Above grade 12	7,131	5,195	*	2,841	*
Total	971,599	530,188	121,275	319,261	182,993

Table 2.2 Number of Holders Applying Inputs by Educational Status Afar Region

Educational Status of Holders	Holders	Fertilizer	Improved seed	Pesticide	Irrigation
Illiterate	10,086	*	1,639	*	5,914
Literate (informal)	1,253	*	*	*	446
Grades 1 – 3	*	*	*	*	*
Grades 4 – 6	561	*	*	*	*
Grades 7 – 8	*	-	-	*	*
Grades 9 – 11	*	-	*	-	*
Grade 12 complete	-	-	-	-	-
Above grade 12	-	-	-	-	-
Total	12,799	*	2,395	*	7,323

Table 2.3 Number of Holders Applying Inputs by Educational Status

Amhara Region					
Educational Status of Holders	Holders	Fertilizer	Improved seed	Pesticide	Irrigation
Illiterate	3,158,097	1,213,732	739,856	905,615	466,825
Literate (informal)	715,358	339,567	252,916	251,134	130,505
Grades 1 – 3	322,103	141,432	86,046	98,507	44,391
Grades 4 – 6	458,705	218,010	138,475	130,226	63,396
Grades 7 – 8	167,838	90,476	48,470	56,379	22,264
Grades 9 – 11	105,846	37,130	39,872	25,752	*
Grade 12 complete	*	*	*	*	-
Above grade 12	7,391	*	*	-	*
Total	4,939,859	2,044,422	1,308,939	1,468,491	736,923

Table 2.4 Number of Holders Applying Inputs by Educational Status

Oromia Region					
Educational Status of Holders	Holders	Fertilizer	Improved seed	Pesticide	Irrigation
Illiterate	3,274,900	1,331,527	875,927	1,462,892	123,587
Literate (informal)	521,420	201,470	122,122	233,647	26,019
Grades 1 – 3	1,074,218	495,187	392,179	512,239	44,722
Grades 4 – 6	1,169,638	521,233	421,419	543,207	56,350
Grades 7 – 8	567,783	273,334	212,196	302,816	30,730
Grades 9 – 11	361,306	187,217	129,425	186,544	9,458
Grade 12 complete	37,140	22,143	19,799	19,506	*
Above grade 12	85,879	35,413	36,079	24,285	*
Total	7,092,282	3,067,523	2,209,147	3,285,136	295,546

Table 2.5 Number of Holders Applying Inputs by Educational Status

Somalie Region					
Educational Status of Holders	Holders	Fertilizer	Improved seed	Pesticide	Irrigation
Illiterate	79,725	*	*	*	25,042
Literate (informal)	23,843	*	*	-	7,118
Grades 1 – 3	5,761	-	*	-	*
Grades 4 – 6	8,817	*	-	*	*
Grades 7 – 8	5,990	-	*	-	3,754
Grades 9 – 11	*	-	-	-	-
Grade 12 complete	-	-	-	-	-
Above grade 12	-	-	-	-	-
Total	124,326	*	3,741	*	40,915

Table 2.6 Number of Holders Applying Inputs by Educational Status

Benishangul – Gumuz Region					
Educational Status of Holders	Holders	Fertilizer	Improved seed	Pesticide	Irrigation
Illiterate	114,423	35,064	21,066	13,928	3,794
Literate (informal)	18,998	10,293	5,816	3,729	753
Grades 1 – 3	26,606	11,837	7,599	4,184	*
Grades 4 – 6	43,275	16,108	8,507	6,007	*
Grades 7 – 8	23,220	5,593	3,948	2,495	-
Grades 9 – 11	12,182	3,931	3,529	*	-
Grade 12 complete	*	*	-	-	-
Above grade 12	3,250	1,414	1,414	*	-
Total	242,176	84,462	51,879	31,960	6,761

Table 2.7 Number of Holders Applying Inputs by Educational Status

S.N.N.P. Region					
Educational Status of Holders	Holders	Fertilizer	Improved seed	Pesticide	Irrigation
Illiterate	1,861,309	600,194	407,859	349,576	50,810
Literate (informal)	92,735	35,656	20,612	26,926	4,192
Grades 1 – 3	423,501	153,922	117,504	101,050	19,663
Grades 4 – 6	588,411	228,822	155,596	132,159	21,859
Grades 7 – 8	280,007	105,777	76,890	64,509	10,870
Grades 9 – 11	174,622	61,310	45,803	38,871	2,500
Grade 12 complete	23,053	7,060	4,858	6,862	*
Above grade 12	61,999	23,207	15,396	8,146	*
Total	3,505,637	1,215,949	844,520	728,098	113,682

Table 2.8 Number of Holders Applying Inputs by Educational Status

Gambella Region					
Educational Status of Holders	Holders	Fertilizer	Improved seed	Pesticide	Irrigation
Illiterate	17,997	-	-	433	*
Literate (informal)	1,248	-	-	*	-
Grades 1 – 3	4,037	-	-	726	-
Grades 4 – 6	3,323	-	-	*	-
Grades 7 – 8	3,612	-	-	*	*
Grades 9 – 11	3,789	-	-	*	*
Grade 12 complete	384	-	-	*	-
Above grade 12	2,430	-	-	-	-
Total	36,820	-	-	2,398	*

Table 2.9 Number of Holders Applying Inputs by Educational Status

Harari Region					
Educational Status of Holders	Holders	Fertilizer	Improved seed	Pesticide	Irrigation
Illiterate	20,475	7,398	*	3,242	7,163
Literate (informal)	*	*	*	-	*
Grades 1 – 3	5,185	1,914	*	736	1,739
Grades 4 – 6	5,482	3,304	966	*	2,430
Grades 7 – 8	2,957	1,422	*	*	1,064
Grades 9 – 11	1,532	*	-	*	*
Grade 12 complete	*	*	-	-	-
Above grade 12	818	*	-	*	*
Total	38,886	16,927	3,026	5,351	14,053

Table 2.10 Number of Holders Applying Inputs by Educational Status

Dire Dawa					
Educational Status of Holders	Holders	Fertilizer	Improved seed	Pesticide	Irrigation
Illiterate	18,415	*	922	*	2,626
Literate (informal)	*	*	-	-	-
Grades 1 – 3	2,034	*	*	-	*
Grades 4 – 6	4,116	*	*	*	981
Grades 7 – 8	717	-	-	-	*
Grades 9 – 11	*	*	-	-	-
Grade 12 complete	-	-	-	-	-
Above grade 12	*	-	-	-	*
Total	26,815	2,003	1,264	561	4,445

Table 3: Number of Holders, Damaged Crop Area in Hectare by Category of Crops and Cause of Damage, 2017/18

Cause of damage	Ethiopia Damaged crop area by crop category (HA)							
	Holders	All crops	Cereals	Pulses	Oilseeds	Vegetables	Root crops	Permanent
All damage	10,725,446	1,509,414	642,567	165,131	95,233	32,437	31,135	160,776
Crop disease	4,487,082	277,684	90,991	25,840	13,321	5,986	8,246	54,613
Frost or floods	900,279	68,250	29,575	10,779	2,967	1,804	2,742	6,944
Locust	32,853	*	*	*	*	*	*	*
Shortage of rain	2,051,847	314,479	147,690	28,132	18,821	5,048	2,450	32,290
Too much rain	1,603,096	149,243	69,559	21,598	6,815	*	6,441	4,944
Wild animals	858,669	40,712	15,326	4,713	3,235	1,124	869	6,046
Birds	205,059	5,497	3,055	690	*	*	*	166
Hailstone	735,371	89,755	35,611	14,116	5,357	*	1,256	8,300
Pests	3,204,726	271,678	124,364	30,534	18,961	8,282	3,639	19,572
Weeds	1,252,399	104,403	47,907	12,768	10,047	2,221	1,471	6,615
Others	2,613,197	184,863	76,631	15,653	15,259	3,862	3,948	21,185

Table 3.1 Number of Holders reporting Damaged Crop Area in Hectare by Category of Crops and Cause of Damage

Cause of damage	Tigray Region Damaged crop area by crop category (HA)							
	Holders	All crops	Cereals	Pulses	Oilseeds	Vegetables	Root crops	Permanent
All damage	723,544	162,531	100,952	10,811	15,980	5,158	1,574	7,481
Crop disease	144,824	9,807	4,646	949	1,734	*	*	709
Frost or floods	45,566	3,291	2,236	*	*	*	*	*
Locust	*	*	*	-	*	-	-	*
Shortage of rain	308,274	71,894	50,531	3,507	4,442	*	*	2,704
Too much rain	69,973	8,425	5,360	*	*	*	*	*
Wild animals	46,353	1,921	807	*	127	*	*	*
Birds	8,437	*	*	-	*	-	*	*
Hailstone	74,360	11,938	7,638	849	*	*	*	*
Pests	211,471	31,287	16,189	2,203	4,408	*	*	1,990
Weeds	95,738	10,319	5,862	*	1,416	*	*	*
Others	162,533	12,915	7,255	1,038	1,783	174	*	*

Table 3.2 Number of Holders reporting Damaged Crop Area in Hectare by Category of Crops and Cause of Damage

Cause of damage	Afar Region Damaged crop area by crop category (HA)							
	Holders	All crops	Cereals	Pulses	Oilseeds	Vegetables	Root crops	Permanent
All damage	8,513	1,266	*	*	-	*	-	-
Crop disease	*	*	-	-	-	*	-	-
Frost or floods	-	-	-	-	-	-	-	-
Locust	*	*	*	*	-	-	-	-
Shortage of rain	*	*	*	*	-	-	-	-
Too much rain	-	-	-	-	-	-	-	-
Wild animals	*	*	*	-	-	*	-	-
Birds	-	-	-	-	-	-	-	-
Hailstone	-	-	-	-	-	-	-	-
Pests	4,949	882	*	*	-	-	-	-
Weeds	*	*	-	-	-	-	-	-
Others	1,781	37	*	*	-	-	-	-

Table 3.3 Number of Holders reporting Damaged Crop Area in Hectare by Category of Crops and Cause of Damage
Amhara Region

Cause of damage	Damaged crop area by crop category (HA)							
	Holders	All crops	Cereals	Pulses	Oilseeds	Vegetables	Root crops	Permanent
All damage	3,368,479	509,477	232,513	90,879	43,958	12,055	7,544	16,024
Crop disease	1,350,478	84,529	34,873	14,934	6,407	2,291	1,988	2,111
Frost or floods	334,450	29,754	14,555	6,063	1,678	*	883	1,122
Locust	*	*	*	-	-	-	-	-
Shortage of rain	567,425	83,542	38,147	16,348	11,890	1,319	114	*
Too much rain	551,743	44,508	19,105	8,352	2,090	*	703	703
Wild animals	182,875	7,386	3,586	1,439	328	*	*	59
Birds	71,353	2,393	1,504	460	*	*	*	*
Hailstone	432,390	57,017	21,418	11,050	3,480	*	*	3,455
Pests	1,160,433	91,867	48,679	16,479	6,458	1,960	989	2,943
Weeds	444,424	39,818	19,701	7,459	4,726	1,144	*	989
Others	997,249	68,612	30,896	8,294	6,861	2,039	1,005	3,084

Table 3.4 Number of Holders reporting Damaged Crop Area in Hectare by Category of Crops and Cause of Damage
Oromia Region

Cause of damage	Damaged crop area by crop category (HA)							
	Holders	All crops	Cereals	Pulses	Oilseeds	Vegetables	Root crops	Permanent
All damage	4,036,629	600,036	221,482	43,369	30,145	9,638	12,956	104,661
Crop disease	1,770,524	139,300	36,446	7,143	4,551	*	*	43,378
Frost or floods	307,834	24,633	8,343	3,437	936	950	1,535	4,274
Locust	20,537	*	*	*	-	-	*	*
Shortage of rain	760,833	113,079	40,074	6,293	1,751	*	*	20,346
Too much rain	460,136	66,418	34,089	7,999	*	*	*	953
Wild animals	334,398	20,943	7,456	*	*	*	*	4,416
Birds	71,509	1,498	675	*	*	*	*	*
Hailstone	162,637	16,169	4,886	*	*	*	*	3,462
Pests	1,087,222	95,495	41,146	6,931	6,534	3,936	657	9,025
Weeds	408,099	36,493	16,049	3,386	2,970	*	211	3,622
Others	957,937	83,926	30,759	4,433	6,077	1,168	*	15,159

Table 3.5 Number of Holders reporting Damaged Crop Area in Hectare by Category of Crops and Cause of Damage
Somalie

Cause of damage	Damaged crop area by crop category (HA)							
	Holders	All crops	Cereals	Pulses	Oilseeds	Vegetables	Root crops	Permanent
All damage	86,813	27,112	12,119	-	*	*	*	4,758
Crop disease	*	*	*	-	*	-	*	*
Frost or floods	*	*	*	-	-	-	-	*
Locust	-	-	-	-	-	-	-	-
Shortage of rain	51,949	22,765	10,319	-	-	*	*	4,344
Too much rain	*	*	*	-	-	-	-	-
Wild animals	*	73	*	-	-	-	-	*
Birds	*	*	*	-	-	-	-	*
Hailstone	-	-	-	-	-	-	-	-
Pests	27,784	*	*	-	*	*	*	*
Weeds	2,920	*	*	-	-	-	-	*
Others	10,338	771	*	-	*	-	*	*

Table 3.6 Number of Holders reporting Damaged Crop Area in Hectare by Category of Crops and Cause of Damage
Benishangul – Gumuz Region

Cause of damage	Damaged crop area by crop category (HA)							
	Holders	All crops	Cereals	Pulses	Oilseeds	Vegetables	Root crops	Permanent
All damage	168,721	24,850	9,780	1,753	3,054	1,597	515	1,887
Crop disease	59,938	3,245	1,008	*	*	*	13	209
Frost or floods	10,951	1,276	*	*	*	*	*	*
Locust	-	-	-	-	-	-	-	-
Shortage of rain	*	*	*	*	*	*	-	-
Too much rain	10,384	*	*	-	*	*	*	*
Wild animals	31,571	2,633	*	130	228	*	*	179
Birds	3,058	107	*	*	*	-	*	-
Hailstone	7,322	515	*	*	*	*	-	*
Pests	62,263	4,282	1,629	415	722	*	89	331
Weeds	44,729	6,563	2,597	498	915	334	*	377
Others	45,236	3,901	1,436	383	*	151	*	*

Table 3.7 Number of Holders reporting Damaged Crop Area in Hectare by Category of Crops and Cause of Damage

S.N.N.P. Region

Cause of damage	Damaged crop area by crop category (HA)							
	Holders	All crops	Cereals	Pulses	Oilseeds	Vegetables	Root crops	Permanent
All damage	2,264,660	175,240	62,858	17,979	1,839	3,284	7,344	23,860
Crop disease	1,137,506	39,871	13,869	2,629	*	779	1,488	7,989
Frost or floods	195,020	8,939	3,983	735	*	*	*	985
Locust	*	*	*	-	-	*	-	*
Shortage of rain	312,972	17,377	6,782	1,814	*	579	594	2,142
Too much rain	508,784	27,957	9,569	4,110	*	*	2,548	3,025
Wild animals	255,881	7,619	2,419	*	*	*	214	967
Birds	48,465	929	401	*	-	*	*	*
Hailstone	58,285	4,023	1,516	*	-	*	*	*
Pests	626,103	42,828	14,697	4,378	*	375	1,426	4,788
Weeds	253,967	10,930	3,566	891	*	216	255	1,366
Others	432,491	14,355	5,843	1,500	*	318	635	1,586

Table 3.8 Number of Holders reporting Damaged Crop Area in Hectare by Category of Crops and Cause of Damage

Gambella Region

Cause of damage	Damaged crop area by crop category (HA)							
	Holders	All crops	Cereals	Pulses	Oilseeds	Vegetables	Root crops	Permanent
All damage	11,755	1,288	208	*	-	*	*	316
Crop disease	2,178	171	*	-	-	*	*	*
Frost or floods	*	*	-	-	-	-	-	*
Locust	*	*	-	-	-	-	-	*
Shortage of rain	1,062	*	*	-	-	*	-	*
Too much rain	1,607	*	*	-	-	-	*	*
Wild animals	1,010	62	*	-	-	-	-	28
Birds	*	*	*	-	-	-	-	*
Hailstone	*	*	-	-	-	*	-	*
Pests	4,749	628	69	*	-	*	*	*
Weeds	1,720	*	*	-	-	*	-	*
Others	949	63	*	-	-	-	-	-

Table 3.9 Number of Holders reporting Damaged Crop Area in Hectare by Category of Crops and Cause of Damage
Harari Region

Cause of damage	Damaged crop area by crop category (HA)							
	Holders	All crops	Cereals	Pulses	Oilseeds	Vegetables	Root crops	Permanent
All damage	32,842	2,816	739	-	*	-	*	1,241
Crop disease	1,551	*	*	-	-	-	-	*
Frost or floods	*	*	*	-	-	-	*	*
Locust	-	-	-	-	-	-	-	-
Shortage of rain	27,513	2,233	684	-	*	-	*	982
Too much rain	-	-	-	-	-	-	-	-
Wild animals	*	*	*	-	-	-	-	*
Birds	*	*	-	-	-	-	-	-
Hailstone	-	-	-	-	-	-	-	-
Pests	10,414	310	*	-	-	-	*	154
Weeds	*	*	-	-	-	-	-	*
Others	1,999	111	*	-	-	-	-	*

Table 3.10 Number of Holders reporting Damaged Crop Area in Hectare by Category of Crops and Cause of Damage
Dire Dawa

Cause of damage	Damaged crop area by crop category (HA)							
	Holders	All crops	Cereals	Pulses	Oilseeds	Vegetables	Root crops	Permanent
All damage	23,490	4,798	1,288	*	*	*	*	548
Crop disease	9,141	353	119	*	*	*	*	86
Frost or floods	*	*	*	-	-	-	-	*
Locust	-	-	-	-	-	-	-	-
Shortage of rain	14,958	2,720	699	*	*	*	-	222
Too much rain	*	*	-	-	-	-	-	*
Wild animals	921	*	*	*	-	-	-	*
Birds	*	*	*	-	-	-	-	-
Hailstone	*	*	-	-	-	-	-	*
Pests	9,337	1,468	430	*	*	*	*	*
Weeds	*	*	*	-	-	-	-	*
Others	2,684	*	*	-	*	*	*	*

Table 4: Number of holders by type of farm practice**Ethiopia**

Farm Practice	Number of Holders Reporting
Crop rotation	14,255,290
Reasons for not participating in extension package	
Ignorance	1,172,893
Shortage of money	2,805,896
Suspicion on efficacy	1,300,440
Programs unavailable	914,775
Insufficient arable land	1,911,886
Others	842,125
Use of services	
Credit	2,583,229
Advisory	11,596,492
Reasons for not using credit service	
Service unavailable	1,205,371
Failure to pay the loan	6,641,269
Inadequate service	2,853,534
Ignorance	775,556
No return	1,028,688
Others	2,789,713
Reasons for not using advisory service	
Service unavailable	919,230
Inadequate service	2,718,520
Ignorance	1,246,985
No return	427,127
Others	968,704
Supplier of fertilizers	
Government	1,753,089
Private organizations	271,165
Traders	698,099
Unions	4,009,570
Others	142,672

Table 4.1 Number of Holders by Type of Farm practice**Tigray Region**

Farm Practice	Number of Holders Reporting
Crop rotation	931,918
Reasons for not participating in extension package	
Ignorance	91,930
Shortage of money	155,337
Suspicion on efficacy	62,097
Programs unavailable	48,104
Insufficient arable land	101,413
Others	48,074
Use of services	
Credit	97,369
Advisory	769,054
Reasons for not using credit service	
Service unavailable	50,345
Failure to pay the loan	495,118
Inadequate service	89,597
Ignorance	62,230
No return	35,960
Others	212,153
Reasons for not using advisory service	
Service unavailable	36,587
Inadequate service	68,722
Ignorance	86,545
No return	13,550
Others	68,311
Supplier of fertilizers	
Government	123,292
Private organizations	2,940
Traders	8,689
Unions	375,939
Others	11,881

**Table 4.2 Number of Holders by Type of Farm practice
Afar Region**

Farm Practice	Number of Holders Reporting
Crop rotation	*
Reasons for not participating in extension package	
Ignorance	*
Shortage of money	*
Suspicion on efficacy	-
Programs unavailable	10,233
Insufficient arable land	-
Others	*
Use of services	
Credit	*
Advisory	7,271
Reasons for not using credit service	
Service unavailable	42,697
Failure to pay the loan	355
Inadequate service	8,289
Ignorance	1,448
No return	*
Others	*
Reasons for not using advisory service	
Service unavailable	25,833
Inadequate service	17,053
Ignorance	3,770
No return	*
Others	-
Supplier of fertilizers	
Government	-
Private organizations	-
Traders	*
Unions	-
Others	-

**Table 4.3: Number of Holders by Type of Farm practice
Amhara Region**

Farm Practice	Number of Holders Reporting
Crop rotation	4,532,665
Reasons for not participating in extension package	
Ignorance	297,464
Shortage of money	572,191
Suspicion on efficacy	394,969
Programs unavailable	150,734
Insufficient arable land	370,024
Others	186,408
Use of services	
Credit	939,287
Advisory	4,036,556
Reasons for not using credit service	
Service unavailable	109,464
Failure to pay the loan	2,094,359
Inadequate service	322,899
Ignorance	178,992
No return	300,561
Others	1,266,167
Reasons for not using advisory service	
Service unavailable	152,247
Inadequate service	291,353
Ignorance	318,917
No return	96,153
Others	316,503
Supplier of fertilizers	
Government	244,075
Private organizations	168,503
Traders	151,648
Unions	1,417,488
Others	42,053

**Table 4.4: Number of Holders by Type of Farm practice
Oromia Region**

Farm Practice	Number of Holders Reporting
Crop rotation	5,895,553
Reasons for not participating in extension package	
Ignorance	470,868
Shortage of money	1,256,969
Suspicion on efficacy	525,052
Programs unavailable	528,729
Insufficient arable land	841,693
Others	414,360
Use of services	
Credit	847,200
Advisory	4,153,349
Reasons for not using credit service	
Service unavailable	702,749
Failure to pay the loan	2,335,638
Inadequate service	1,812,236
Ignorance	309,517
No return	464,847
Others	959,429
Reasons for not using advisory service	
Service unavailable	467,296
Inadequate service	1,703,018
Ignorance	455,509
No return	222,967
Others	429,478
Supplier of fertilizers	
Government	505,278
Private organizations	73,395
Traders	272,103
Unions	2,106,204
Others	77,292

**Table 4.5: Number of Holders by Type of Farm practice
Somalie Region**

Farm Practice	Number of Holders Reporting
Crop rotation	50,066
Reasons for not participating in extension package	
Ignorance	*
Shortage of money	*
Suspicion on efficacy	*
Programs unavailable	86,907
Insufficient arable land	6,026
Others	15,687
Use of services	
Credit	*
Advisory	17,824
Reasons for not using credit service	
Service unavailable	132,492
Failure to pay the loan	6,148
Inadequate service	47,566
Ignorance	*
No return	*
Others	6,557
Reasons for not using advisory service	
Service unavailable	121,167
Inadequate service	50,422
Ignorance	*
No return	-
Others	4,783
Supplier of fertilizers	
Government	*
Private organizations	-
Traders	*
Unions	-
Others	-

**Table 4.6: Number of Holders by Type of Farm practice
Benishangul – Gumuz Region**

Farm Practice	Number of Holders Reporting
Crop rotation	212,158
Reasons for not participating in extension package	
Ignorance	25,076
Shortage of money	96,479
Suspicion on efficacy	4,452
Programs unavailable	1,700
Insufficient arable land	13,900
Others	12,669
Use of services	
Credit	18,861
Advisory	168,634
Reasons for not using credit service	
Service unavailable	23,097
Failure to pay the loan	120,637
Inadequate service	36,109
Ignorance	10,586
No return	6,967
Others	33,241
Reasons for not using advisory service	
Service unavailable	8,359
Inadequate service	41,599
Ignorance	20,021
No return	2,533
Others	8,350
Supplier of fertilizers	
Government	42,969
Private organizations	1,010
Traders	7,805
Unions	29,481
Others	1,926

**Table 4.7 : Number of Holders by Type of Farm practice
S.N.N.P. Region**

Farm Practice	Number of Holders Reporting
Crop rotation	2,606,184
Reasons for not participating in extension package	
Ignorance	270,131
Shortage of money	715,408
Suspicion on efficacy	292,156
Programs unavailable	70,628
Insufficient arable land	572,075
Others	142,059
Use of services	
Credit	668,719
Advisory	2,414,923
Reasons for not using credit service	
Service unavailable	116,106
Failure to pay the loan	1,581,401
Inadequate service	476,694
Ignorance	210,083
No return	217,826
Others	308,490
Reasons for not using advisory service	
Service unavailable	87,126
Inadequate service	497,519
Ignorance	350,463
No return	91,318
Others	137,969
Supplier of fertilizers	
Government	835,429
Private organizations	21,914
Traders	247,469
Unions	73,820
Others	9,520

**Table 4.8 :Number of Holders by Type of Farm practice
Gambella Region**

Farm Practice	Number of Holders Reporting
Crop rotation	6,823
Reasons for not participating in extension package	
Ignorance	2,687
Shortage of money	506
Suspicion on efficacy	1,264
Programs unavailable	12,845
Insufficient arable land	1,352
Others	5,531
Use of services	
Credit	*
Advisory	4,951
Reasons for not using credit service	
Service unavailable	21,825
Failure to pay the loan	849
Inadequate service	3,086
Ignorance	*
No return	*
Others	*
Reasons for not using advisory service	
Service unavailable	10,132
Inadequate service	10,529
Ignorance	*
No return	*
Others	1,014
Supplier of fertilizers	
Government	-
Private organizations	-
Traders	-
Unions	-
Others	-

**Table 4.9: Number of Holders by Type of Farm practice
Harari Region**

Farm Practice	Number of Holders Reporting
Crop rotation	14,352
Reasons for not participating in extension package	
Ignorance	*
Shortage of money	6,000
Suspicion on efficacy	5,084
Programs unavailable	*
Insufficient arable land	2,378
Others	5,631
Use of services	
Credit	1,286
Advisory	21,899
Reasons for not using credit service	
Service unavailable	*
Failure to pay the loan	2,227
Inadequate service	31,742
Ignorance	*
No return	*
Others	1,684
Reasons for not using advisory service	
Service unavailable	*
Inadequate service	13,227
Ignorance	1,057
No return	*
Others	1,585
Supplier of fertilizers	
Government	*
Private organizations	3,298
Traders	6,325
Unions	6,639
Others	-

**Table 4.10: Number of Holders by Type of Farm practice
Dire Dawa**

Farm Practice	Number of Holders Reporting
Crop rotation	1,638
Reasons for not participating in extension package	
Ignorance	4,091
Shortage of money	667
Suspicion on efficacy	4,320
Programs unavailable	3,494
Insufficient arable land	3,025
Others	10,390
Use of services	
Credit	*
Advisory	2,030
Reasons for not using credit service	
Service unavailable	*
Failure to pay the loan	*
Inadequate service	25,316
Ignorance	*
No return	*
Others	1,009
Reasons for not using advisory service	
Service unavailable	*
Inadequate service	25,077
Ignorance	*
No return	*
Others	*
Supplier of fertilizers	
Government	*
Private organizations	*
Traders	1,656
Unions	-
Others	-

Table 5: Number of Holders and Area of Irrigated land by Source of Water, 2017/18

Geographic Area		Source of Water					
		River	Lake	Pond	Water Harvest	Others	Total
Ethiopia	Holders	972,527	45,491	111,743	80,380	235,863	1,403,052
	Hectare	148,504	7,083	10,388	5,702	9,605	181,281
Tigray Region	Holders	99,593	4,545	28,746	27,243	26,501	182,993
	Hectare	15,243	273	1,521	1,117	*	18,686
Afar Region	Holders	7,202	*	-	-	*	7,323
	Hectare	4,744	*	-	-	*	4,744
Amhara Region	Holders	537,713	13,730	26,010	35,087	149,529	736,923
	Hectare	54,484	2,022	*	1,350	3,517	63,124
Oromia Region	Holders	177,294	21,501	53,319	*	51,767	295,546
	Hectare	29,430	4,005	6,070	*	4,794	44,932
Somali Region	Holders	40,915	-	-	-	-	40,915
	Hectare	*	-	-	-	-	*
Benishangul Gumze	Holders	4,925	*	*	*	*	6,761
	Hectare	*	*	*	*	*	727
S.N.N.P Region	Holders	96,303	4,737	*	*	*	113,682
	Hectare	29,146	*	*	*	*	31,172
Gambella Region	Holders	*	-	-	-	-	*
	Hectare	*	-	-	-	-	*
Harari Region	Holders	*	-	*	4,554	*	14,053
	Hectare	*	-	*	1,339	*	4,265
Dire Dawa	Holders	3,985	-	*	*	*	4,445
	Hectare	*	-	*	*	*	*

Table 6: Area of Irrigated land by Crop and Source of Water, 2017/18 ; Ethiopia

Crop type	Source of Water					
	River	Lake	Pond	Water Harvest	Others	Total
All	148,504	7,083	10,388	5,702	9,605	181,281
Cereals	57,820	4,867	3,835	1,593	986	69,100
Teff	9,355	*	*	*	-	10,400
Barley	818	*	*	-	-	1,375
Wheat	2,858	1,334	*	*	-	4,952
Maize	21,010	2,663	415	406	788	25,281
Sorghum	23,527	*	*	207	*	24,914
Finger millet	*	*	*	-	*	673
Oats/'Aja'	*	-	-	-	-	*
Rice	-	-	*	-	-	*
Pulse	3,471	*	*	*	*	4,232
Horse/Faba beans	*	*	-	-	*	*
Field peas	*	-	-	-	*	*
White Haricot beans	*	-	-	-	-	*
Red Haricot beans	*	*	-	*	-	1,702
Chick peas	*	-	-	-	-	*
Lentiles	*	*	-	-	-	*
Vetch/Grass peas	*	*	-	-	-	*
Soya beans	*	-	-	-	-	*
Fenugreek	*	-	*	*	*	*
Mung bean/'Masho'	*	-	-	-	*	*
Gibto	*	-	-	-	-	*
Oile Seeds	508	*	*	*	*	699
Nueg	*	-	-	-	-	*
Linseed	*	-	-	-	-	*
Ground nuts	*	*	*	*	*	271
Safflower	*	-	-	-	-	*
Sesame	*	-	-	-	-	*
Rapeseed	*	-	*	-	*	*
Vegetables	4,377	*	*	773	*	6,357
Lettuce	*	-	*	*	-	*
Head Cabbage	*	*	*	*	-	*
Ethiopian Cabbage	422	-	-	*	*	574
Tomatoes	1,487	*	*	*	*	2,559
Green peppers	676	-	*	373	*	1,108
Red papers	1,267	*	*	*	*	1,497
Swiss chard	*	-	-	*	*	5
Root Crops	19,900	*	*	86	151	21,227
Beet root	*	-	*	*	-	*
Carrot	*	-	-	-	-	*
Onion	15,280	*	*	*	*	16,208
Potatoes	1,830	-	*	*	*	1,882
Yam	-	-	-	-	-	-
Garlic	1,540	-	45	*	*	1,669
Taro/'Godere'	*	*	-	-	-	*
Sweet potatoes	*	*	*	*	*	*
Other Temporary	*	*	-	*	34	*
Fruit Crops	13,053	*	*	*	406	14,376
Avocado	314	-	*	*	*	334
Bananas	*	*	*	*	72	*
Guava	173	-	*	51	*	701
Lemons	605	-	*	*	30	663
Mangos	1,276	-	29	*	121	1,438
Oranges	1,136	*	*	*	*	1,296
Papayas	513	*	*	*	*	763
Pineapples	-	-	-	-	-	-
Stimulant Crops	34,485	*	5,060	2,804	6,955	49,452
Chat	21,932	*	4,718	2,376	5,054	34,102
Coffee	9,763	*	*	*	736	10,789
Hops/'Geshe'	2,790	*	261	255	1,165	4,561
Enset	892	*	-	-	-	893
Sugar Cane	6,517	*	*	*	*	7,319
Other Permanent	1,063	*	*	28	27	1,152

**Table 6.1: Area of Irrigated land by Crop and Source of Water
Tigray**

Crop type	Source of Water						Total
	River	Lake	Pond	Water	Harvest	Others	
All	15,243	273	1,521	1,117	*	*	18,686
Cereals	11,075	*	*	*	*	*	13,159
Teff	2,327	-	*	*	-	-	2,701
Barley	*	*	-	-	-	-	*
Wheat	1,867	*	*	*	-	-	2,638
Maize	465	*	*	*	*	*	1,138
Sorghum	*	*	-	-	-	-	*
Finger millet	*	-	*	-	-	*	*
Oats/'Aja'	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulse	159	*	*	*	*	*	260
Horse/Faba beans	*	-	-	-	-	-	*
Field peas	*	-	-	-	-	-	*
White Haricot beans	-	-	-	-	-	-	-
Red Haricot beans	-	-	-	-	-	-	-
Chick peas	*	-	-	-	-	-	*
Lentiles	-	*	-	-	-	-	*
Vetch/Grass peas	*	-	-	-	-	-	*
Soya beans	-	-	-	-	-	-	-
Fenugreek	*	-	*	*	*	*	12
Mung bean/'Masho"	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oile Seeds	*	-	*	-	-	*	*
Nueg	-	-	-	-	-	-	-
Linseed	*	-	-	-	-	-	*
Ground nuts	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Rapeseed	-	-	*	-	-	*	*
Vegetables	*	*	*	394	*	*	1,214
Lettuce	*	-	*	*	-	-	*
Head Cabbage	*	-	*	*	-	-	*
Ethiopian Cabbage	-	-	-	*	-	-	*
Tomatoes	*	-	*	*	*	*	*
Green peppers	*	-	*	*	*	*	451
Red papers	84	*	*	*	*	*	137
Swiss chard	*	-	-	-	-	*	*
Root Crops	*	-	*	*	*	*	651
Beet root	-	-	-	*	-	-	*
Carrot	*	-	-	-	-	-	*
Onion	*	-	*	*	-	-	*
Potatoes	*	-	-	*	*	*	*
Yam	-	-	-	-	-	-	-
Garlic	*	-	*	*	*	*	*
Taro/'Godere'	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-
Other Temporary	*	-	-	-	-	*	*
Fruit Crops	*	-	*	39	*	*	*
Avocado	*	-	*	*	*	*	*
Bananas	*	-	*	*	*	*	*
Guava	*	-	*	*	*	*	*
Lemons	*	-	*	*	*	*	37
Mangos	*	-	*	*	*	*	*
Oranges	*	-	*	*	*	*	*
Papayas	*	-	*	-	-	*	*
Pineapples	-	-	-	-	-	-	-
Stimulant Crops	1,648	*	197	63	47	47	1,969
Chat	*	-	-	-	-	-	*
Coffee	*	*	*	*	*	*	*
Hops/'Gescho'	531	*	196	63	46	46	849
Enset	-	-	-	-	-	-	-
Sugar Cane	*	-	-	-	-	-	*
Other Permanent	*	-	*	*	*	*	*

Table 6.2: Area of Irrigated land by Crop and Source of Water
Afar

Crop type	Source of Water						Total
	River	Lake	Pond	Water	Harvest	Others	
All	4,744	*	-	-	-	*	4,744
Cereals	4,050	-	-	-	-	*	4,050
Teff	-	-	-	-	-	-	-
Barley	*	-	-	-	-	-	*
Wheat	-	-	-	-	-	-	-
Maize	4,042	-	-	-	-	*	4,042
Sorghum	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-
Oats/ 'Aja'	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulse	*	-	-	-	-	-	*
Horse/Faba beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
White Haricot beans	-	-	-	-	-	-	-
Red Haricot beans	*	-	-	-	-	-	*
Chick peas	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Mung bean/"Masho"	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oile seeds	*	-	-	-	-	-	*
Nueg	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	*	-	-	-	-	-	*
Rapeseed	-	-	-	-	-	-	-
Vegetables	*	-	-	-	-	-	*
Lettuce	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-
Tomatoes	*	-	-	-	-	-	*
Green peppers	*	-	-	-	-	-	*
Red papers	*	-	-	-	-	-	*
Swiss chard	-	-	-	-	-	-	-
Root crops	*	-	-	-	-	-	*
Beet root	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	-	-	-	-	-	*
Potatoes	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-
Sweet potatoes	*	-	-	-	-	-	*
Other Temporary	*	-	-	-	-	-	*
Fruit Crops	8	-	-	-	-	-	8
Avocado	-	-	-	-	-	-	-
Bananas	*	-	-	-	-	-	*
Guava	*	-	-	-	-	-	*
Lemons	*	-	-	-	-	-	*
Mangos	*	-	-	-	-	-	*
Oranges	-	-	-	-	-	-	-
Papayas	*	-	-	-	-	-	*
Pineapples	-	-	-	-	-	-	-
Stimulant Crops	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-
Hops/'Gescho'	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-	-
Other Permanent	284	*	-	-	-	-	284

**Table 6.3: Area of Irrigated land by Crop and Source of Water
Amhara**

Crop type	Source of Water						Total
	River	Lake	Pond	Water	Harvest	Others	
All	54,484	2,022	*	1,350		3,517	63,124
Cereals	*	1,467	*	*		*	*
Teff	4,089	-	*	-		-	4,134
Barley	*	-	-	-		-	*
Wheat	*	*	-	-		-	1,369
Maize	3,869	*	-	*		*	4,832
Sorghum	*	*	-	-		-	*
Finger millet	*	-	-	-		-	*
Oats/ 'Aja'	*	-	-	-		-	*
Rice	-	-	*	-		-	*
Pulse	1,212	*	*	-		*	1,754
Horse/Faba beans	*	-	-	-		*	*
Field peas	*	-	-	-		*	*
White Haricot beans	*	-	-	-		-	*
Red Haricot beans	*	-	-	-		-	*
Chick peas	-	-	-	-		-	-
Lentiles	*	-	-	-		-	*
Vetch/Grass peas	-	*	-	-		-	*
Soya beans	-	-	-	-		-	-
Fenugreek	*	-	*	-		-	*
Mung bean/"Masho"	-	-	-	-		*	*
Gibto	*	-	-	-		-	*
Oile seeds	348	-	-	*		-	350
Nueg	*	-	-	-		-	*
Linseed	*	-	-	-		-	*
Ground nuts	-	-	-	*		-	*
Safflower	*	-	-	-		-	*
Sesame	*	-	-	-		-	*
Rapeseed	*	-	-	-		-	*
Vegetables	1,810	*	*	*		*	2,104
Lettuce	-	-	-	-		-	-
Head Cabbage	127	-	*	*		-	143
Ethiopian Cabbage	*	-	-	*		*	*
Tomatoes	*	-	-	-		*	*
Green peppers	246	-	*	*		*	273
Red papers	1,018	*	*	*		*	1,193
Swiss chard	*	-	-	*		-	*
Root crops	*	-	*	10		*	*
Beet root	*	-	-	-		-	*
Carrot	*	-	-	-		-	*
Onion	*	-	*	*		*	*
Potatoes	*	-	*	*		-	*
Yam	-	-	-	-		-	-
Garlic	*	-	*	*		*	*
Taro 'Godere'	-	-	-	-		-	-
Sweet potatoes	*	-	-	*		*	*
Other Temporary	*	-	-	*		*	*
Fruit Crops	1,760	*	*	*		267	2,290
Avocado	45	-	-	*		*	47
Bananas	559	*	-	*		*	636
Guava	58	-	-	*		*	76
Lemons	*	-	-	*		*	*
Mangos	229	-	*	*		74	315
Oranges	*	*	*	*		*	*
Papayas	*	-	-	*		*	*
Pineapples	-	-	-	-		-	-
Stimulant Crops	8,706	*	*	955		1,905	11,743
Chat	2,143	*	-	*		*	3,174
Coffee	*	*	*	*		402	4,985
Hops/'Gesho'	2,144	*	*	*		1,108	3,584
Enset	-	-	-	-		-	-
Sugar Cane	3,957	*	-	*		*	4,450
Other Permanent	163	*	*	*		11	213

Table 6.4: Area of Irrigated land by Crop and Source of Water
Oromia

Source of Water	Source of Water					
Crop type	River	Lake	Pond	Water Harvest	Others	Total
All	29,430	4,005	6,070	*	4,794	44,932
Cereals	6,782	2,596	*	*	*	10,666
Teff	*	*	-	*	-	*
Barley	-	*	*	-	-	*
Wheat	*	*	-	-	-	*
Maize	5,469	*	*	-	*	7,163
Sorghum	*	-	*	-	*	788
Finger millet	-	*	-	-	-	*
Oats/ 'Aja'	-	-	-	-	-	
Rice	-	-	-	-	-	
Pulse	*	*	-	-	-	*
Horse/Faba beans	-	*	-	-	-	*
Field peas	*	-	-	-	-	*
White Haricot beans	*	-	-	-	-	*
Red Haricot beans	*	-	-	-	-	*
Chick peas	*	-	-	-	-	*
Lentiles	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Mung bean/"Masho"	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oile seeds	-	*	-	-	-	*
Nueg	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Ground nuts	-	*	-	-	-	*
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Vegetables	*	*	*	*	-	2,157
Lettuce	-	-	-	-	-	-
Head Cabbage	*	*	-	-	-	*
Ethiopian Cabbage	*	-	-	-	-	*
Tomatoes	*	*	*	-	-	*
Green peppers	*	-	-	*	-	*
Red papers	*	-	*	-	-	*
Swiss chard	*	-	-	-	-	*
Root crops	7,137	*	*	-	*	8,166
Beet root	*	-	*	-	-	*
Carrot	-	-	-	-	-	-
Onion	*	*	-	-	-	*
Potatoes	*	-	-	-	-	*
Yam	-	-	-	-	-	-
Garlic	*	-	-	-	-	*
Taro 'Godere'	-	-	-	-	-	-
Sweet potatoes	*	*	-	-	*	*
Other Temporary	*	-	-	-	*	*
Fruit Crops	*	-	*	-	*	1,265
Avocado	*	-	-	-	-	*
Bananas	*	-	*	-	*	*
Guava	*	-	*	-	-	*
Lemons	*	-	*	-	-	*
Mangos	*	-	*	-	*	*
Oranges	*	-	*	-	-	*
Papayas	*	-	*	-	-	41
Pineapples	-	-	-	-	-	-
Stimulant Crops	11,246	-	*	-	4,622	20,250
Chat	10,077	-	*	-	4,293	18,726
Coffee	1,059	-	*	-	*	1,404
Hops/'Gesho'	*	-	-	-	*	*
Enset	*	-	-	-	-	*
Sugar Cane	*	-	*	-	*	1,755
Other Permanent	*	-	-	-	*	*

Table 6.5: Area of Irrigated land by Crop and Source of Water
Somalie

Crop type	Source of Water						Total
	River	Lake	Pond	Water	Harvest	Others	
All	*	-	-	-	-	-	*
Cereals	*	-	-	-	-	-	*
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	1,594	-	-	-	-	-	1,594
Sorghum	*	-	-	-	-	-	*
Finger millet	-	-	-	-	-	-	-
Oats/ 'Aja'	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulse	*	-	-	-	-	-	*
Horse/Faba beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
White Haricot beans	-	-	-	-	-	-	-
Red Haricot beans	*	-	-	-	-	-	*
Chick peas	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Mung bean/"Masho"	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oile seeds	*	-	-	-	-	-	*
Nueg	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	*	-	-	-	-	-	*
Safflower	-	-	-	-	-	-	-
Sesame	*	-	-	-	-	-	*
Rapeseed	-	-	-	-	-	-	-
Vegetables	140	-	-	-	-	-	140
Lettuce	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-
Tomatoes	*	-	-	-	-	-	*
Green peppers	*	-	-	-	-	-	*
Red papers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root crops	*	-	-	-	-	-	*
Beet root	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	-	-	-	-	-	*
Potatoes	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-
Sweet potatoes	*	-	-	-	-	-	*
Other Temporary	*	-	-	-	-	-	*
Fruit Crops	1,526	-	-	-	-	-	1,526
Avocado	-	-	-	-	-	-	-
Bananas	*	-	-	-	-	-	*
Guava	*	-	-	-	-	-	*
Lemons	*	-	-	-	-	-	*
Mangos	*	-	-	-	-	-	*
Oranges	450	-	-	-	-	-	450
Papayas	*	-	-	-	-	-	*
Pineapples	-	-	-	-	-	-	-
Stimulant Crops	*	-	-	-	-	-	*
Chat	*	-	-	-	-	-	*
Coffee	*	-	-	-	-	-	*
Hops/'Gesho'	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-	-
Other Permanent	*	-	-	-	-	-	*

Table 6.6: Area of Irrigated land by Crop and Source of Water
Benishangul – Gumuz

Crop type	Source of Water						Total
	River	Lake	Pond	Water Harvest	Others		
All	*	*	*	*	*		727
Cereals	*	*	-	-	*		*
Teff	-	-	-	-	-		-
Barley	-	-	-	-	-		-
Wheat	-	-	-	-	-		-
Maize	*	*	-	-	*		*
Sorghum	-	-	-	-	-		-
Finger millet	-	-	-	-	-		-
Oats/ 'Aja'	-	-	-	-	-		-
Rice	-	-	-	-	-		-
Pulse	*	-	-	-	-		*
Horse/Faba beans	-	-	-	-	-		-
Field peas	-	-	-	-	-		-
White Haricot beans	-	-	-	-	-		-
Red Haricot beans	-	-	-	-	-		-
Chick peas	-	-	-	-	-		-
Lentiles	-	-	-	-	-		-
Vetch/Grass peas	-	-	-	-	-		-
Soya beans	*	-	-	-	-		*
Fenugreek	-	-	-	-	-		-
Mung bean/"Masho"	-	-	-	-	-		-
Gibto	-	-	-	-	-		-
Oile seeds	-	-	-	-	-		-
Nueg	-	-	-	-	-		-
Linseed	-	-	-	-	-		-
Ground nuts	-	-	-	-	-		-
Safflower	-	-	-	-	-		-
Sesame	-	-	-	-	-		-
Rapeseed	-	-	-	-	-		-
Vegetables	*	-	-	-	-		*
Lettuce	-	-	-	-	-		-
Head Cabbage	*	-	-	-	-		*
Ethiopian Cabbage	-	-	-	-	-		-
Tomatoes	*	-	-	-	-		*
Green peppers	*	-	-	-	-		*
Red papers	*	-	-	-	-		*
Swiss chard	-	-	-	-	-		-
Root crops	*	*	-	-	-		*
Beet root	*	-	-	-	-		*
Carrot	-	-	-	-	-		-
Onion	*	-	-	-	-		*
Potatoes	-	-	-	-	-		-
Yam	-	-	-	-	-		-
Garlic	*	-	-	-	-		*
Taro 'Godere'	-	-	-	-	-		-
Sweet potatoes	-	*	-	-	-		*
Other Temporary	-	*	-	-	-		*
Fruit Crops	*	*	*	-	*		*
Avocado	-	-	-	-	-		-
Bananas	*	-	*	-	-		*
Guava	-	-	-	-	-		-
Lemons	-	-	-	-	-		-
Mangos	*	-	-	-	*		*
Oranges	-	-	-	-	-		-
Papayas	*	*	-	-	*		*
Pineapples	-	-	-	-	-		-
Stimulant Crops	*	-	*	*	*		*
Chat	*	-	-	-	*		*
Coffee	*	-	*	*	*		*
Hops/'Geshe'	*	-	*	-	-		*
Enset	-	-	-	-	-		-
Sugar Cane	*	-	-	-	-		*
Other Permanent	-	-	-	-	-		-

Table 6.7: Area of Irrigated land by Crop and Source of Water
S.N.N.P.R

Crop type	Source of Water						Total
	River	Lake	Pond	Water Harvest	Others		
All	29,146	*	*	*	*		31,172
Cereals	9,167	*	-	*	-		9,802
Teff	*	*	-	-	-		*
Barley	*	-	-	-	-		*
Wheat	-	*	-	-	-		*
Maize	5,312	*	-	*	-		5,835
Sorghum	1,385	-	-	-	-		1,385
Finger millet	-	-	-	-	-		-
Oats/ 'Aja'	-	-	-	-	-		-
Rice	-	-	-	-	-		-
Pulse	*	*	-	*	-		*
Horse/Faba beans	*	-	-	-	-		*
Field peas	-	-	-	-	-		-
White Haricot beans	*	-	-	-	-		*
Red Haricot beans	*	*	-	*	-		*
Chick peas	-	-	-	-	-		-
Lentiles	-	-	-	-	-		-
Vetch/Grass peas	-	-	-	-	-		-
Soya beans	-	-	-	-	-		-
Fenugreek	-	-	-	-	-		-
Mung bean/"Masho"	*	-	-	-	-		*
Gibto	-	-	-	-	-		-
Oile seeds	*	-	-	-	-		*
Nueg	-	-	-	-	-		-
Linseed	-	-	-	-	-		-
Ground nuts	-	-	-	-	-		-
Safflower	-	-	-	-	-		-
Sesame	-	-	-	-	-		-
Rapeseed	*	-	-	-	-		*
Vegetables	356	-	-	*	*		500
Lettuce	-	-	-	-	-		-
Head Cabbage	*	-	-	-	-		*
Ethiopian Cabbage	128	-	-	*	*		*
Tomatoes	*	-	-	*	-		*
Green peppers	*	-	-	-	*		*
Red papers	*	-	-	-	-		*
Swiss chard	-	-	-	-	-		-
Root crops	*	*	-	*	-		*
Beet root	*	-	-	*	-		*
Carrot	-	-	-	-	-		-
Onion	*	-	-	-	-		*
Potatoes	*	-	-	-	-		*
Yam	-	-	-	-	-		-
Garlic	*	-	-	-	-		*
Taro 'Godere'	*	*	-	-	-		*
Sweet potatoes	*	-	-	-	-		*
Other Temporary	*	-	-	*	*		*
Fruit Crops	*	-	-	*	*		*
Avocado	262	-	-	*	-		263
Bananas	*	-	-	*	-		*
Guava	*	-	-	-	-		*
Lemons	*	-	-	*	*		*
Mangos	*	-	-	-	*		*
Oranges	*	-	-	*	-		*
Papayas	21	-	-	*	-		23
Pineapples	-	-	-	-	-		-
Stimulant Crops	7,262	*	*	*	*		8,372
Chat	*	-	-	*	*		*
Coffee	3,488	*	*	*	*		3,538
Hops/'Gesho'	*	-	-	-	-		*
Enset	878	*	-	-	-		879
Sugar Cane	*	-	-	-	-		*
Other Permanent	*	*	-	*	*		*

**Table 6.8: Area of Irrigated land by Crop and Source of Water
Gambella**

Crop type	Source of Water						Total
	River	Lake	Pond	Water Harvest	Others		
All	*	-	-	-	-	-	*
Cereals	*	-	-	-	-	-	*
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	*	-	-	-	-	-	*
Sorghum	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-
Oats/ 'Aja'	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
White Haricot beans	-	-	-	-	-	-	-
Red Haricot beans	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Mung bean/"Masho"	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oile seeds	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Vegetables	*	-	-	-	-	-	*
Lettuce	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-
Tomatoes	*	-	-	-	-	-	*
Green peppers	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-
Fruit Crops	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-
Mangos	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-
Stimulant Crops	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-
Hops/'Geshe'	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-

Table 6.9: Area of Irrigated land by Crop and Source of Water
Harari

Crop type	Source of Water					
	River	Lake	Pond	Water Harvest	Others	Total
All	*	-	*	1,339	*	4,265
Cereals	*	-	*	490	*	1,361
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	*	-	*
Maize	*	-	*	*	*	429
Sorghum	*	-	*	207	*	928
Finger millet	-	-	-	-	-	-
Oats/ 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulse	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
White Haricot beans	-	-	-	-	-	-
Red Haricot beans	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Mung bean/"Masho"	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oile seeds	*	-	*	-	*	164
Nueg	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Ground nuts	*	-	*	-	*	164
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Vegetables	-	-	-	*	-	*
Lettuce	-	-	-	-	-	-
Head Cabbage	-	-	-	*	-	*
Ethiopian Cabbage	-	-	-	-	-	-
Tomatoes	-	-	-	*	-	*
Green peppers	-	-	-	*	-	*
Red papers	-	-	-	-	-	-
Swiss chard	-	-	-	*	-	*
Root crops	-	-	*	*	-	*
Beet root	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	-	-	-	-	-	-
Potatoes	-	-	-	*	-	*
Yam	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-
Sweet potatoes	-	-	*	-	-	*
Other Temporary	-	-	-	*	-	*
Fruit Crops	*	-	*	*	*	258
Avocado	-	-	*	-	-	*
Bananas	*	-	*	*	*	*
Guava	*	-	*	*	-	*
Lemons	*	-	*	*	*	*
Mangos	*	-	*	*	*	93
Oranges	-	-	-	-	-	-
Papayas	*	-	*	*	*	*
Pineapples	-	-	-	-	-	-
Stimulant Crops	*	-	*	727	*	1,928
Chat	*	-	*	726	*	1,890
Coffee	-	-	*	*	-	*
Hops/'Gescho'	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Sugar Cane	*	-	-	*	*	*
Other Permanent	*	-	*	-	-	*

Table 6.10: Area of Irrigated land by Crop and Source of Water
Dire Dawa

Crop type	Source of Water						Total
	River	Lake	Pond	Water Harvest	Others		
All	*	-	*	*	*		*
Cereals	*	-	*	-	*		*
Teff	-	-	-	-	-		-
Barley	-	-	-	-	-		-
Wheat	-	-	-	-	-		-
Maize	*	-	*	-	-		*
Sorghum	*	-	*	-	*		*
Finger millet	-	-	-	-	-		-
Oats/ 'Aja'	-	-	-	-	-		-
Rice	-	-	-	-	-		-
Pulse	*	-	-	-	-		*
Horse/Faba beans	-	-	-	-	-		-
Field peas	-	-	-	-	-		-
White Haricot beans	*	-	-	-	-		*
Red Haricot beans	*	-	-	-	-		*
Chick peas	-	-	-	-	-		-
Lentiles	-	-	-	-	-		-
Vetch/Grass peas	-	-	-	-	-		-
Soya beans	-	-	-	-	-		-
Fenugreek	-	-	-	-	-		-
Mung bean/"Masho"	-	-	-	-	-		-
Gibto	-	-	-	-	-		-
Oile seeds	*	-	-	-	-		*
Nueg	-	-	-	-	-		-
Linseed	-	-	-	-	-		-
Ground nuts	-	-	-	-	-		-
Safflower	-	-	-	-	-		-
Sesame	*	-	-	-	-		*
Rapeseed	-	-	-	-	-		-
Vegetables	*	-	*	*	*		*
Lettuce	-	-	-	-	-		-
Head Cabbage	-	-	-	-	-		-
Ethiopian Cabbage	-	-	-	-	-		-
Tomatoes	*	-	*	-	-		*
Green peppers	*	-	-	*	*		*
Red papers	-	-	-	-	-		-
Swiss chard	-	-	-	-	-		-
Root crops	*	-	-	-	-		*
Beet root	-	-	-	-	-		-
Carrot	-	-	-	-	-		-
Onion	-	-	-	-	-		-
Potatoes	-	-	-	-	-		-
Yam	-	-	-	-	-		-
Garlic	-	-	-	-	-		-
Taro 'Godere'	-	-	-	-	-		-
Sweet potatoes	*	-	-	-	-		*
Other Temporary	-	-	-	-	-		-
Fruit Crops	*	-	*	*	*		*
Avocado	-	-	-	-	-		-
Bananas	*	-	-	-	-		*
Guava	*	-	-	-	-		*
Lemons	-	-	-	-	-		-
Mangos	*	-	-	-	-		*
Oranges	*	-	-	-	-		*
Papayas	*	-	*	*	*		*
Pineapples	-	-	-	-	-		-
Stimulant Crops	*	-	-	-	*		*
Chat	*	-	-	-	*		*
Coffee	*	-	-	-	-		*
Hops/'Gescho'	-	-	-	-	-		-
Enset	-	-	-	-	-		-
Sugar Cane	-	-	-	-	-		-
Other Permanent	*	-	-	-	-		*

Table 7: Farm Area Protected against Erosion as Reported by Farmers, 2017/18

Geographic area		Method of Protection					
		Terracing	Water catchments	Planting trees	Ploughing along the contour	Others	Total
Ethiopia	Holder	6,420,457	2,220,858	473,282	5,924,342	4,623,406	16,991,200
	Hectare	3,394,191	581,412	69,768	3,764,476	2,761,677	18,592,865
Tigray Region	Holder	581,848	401,723	18,541	505,532	12,927	971,599
	Hectare	337,328	158,961	1,358	393,241	*	1,023,721
Afar Region	Holder	*	*	-	*	*	12,799
	Hectare	*	*	-	*	*	14,882
Amhara Region	Holder	3,048,977	942,616	102,041	1,662,255	1,962,141	4,939,859
	Hectare	1,901,903	234,033	7,234	1,049,004	987,406	5,143,285
Oromia Region	Holder	1,878,386	623,005	212,659	2,505,704	2,288,090	7,092,282
	Hectare	808,607	128,549	39,994	1,748,735	1,676,705	9,043,328
Somali Region	Holder	30,099	16,621	*	60,557	*	124,326
	Hectare	*	5,020	*	55,442	*	103,946
Benishangul – Gumuz Reg.	Holder	28,983	32,888	5,599	83,345	57,888	242,176
	Hectare	17,918	14,109	*	73,011	41,881	389,479
S.N.N.P Region	Holder	792,601	187,846	133,196	1,101,287	297,437	3,505,637
	Hectare	286,667	34,755	18,905	443,246	51,833	2,810,999
Gambella Region	Holder	-	*	-	*	*	36,820
	Hectare	-	*	-	*	*	29,361
Harari Region	Holder	32,585	11,092	-	*	*	38,886
	Hectare	15,608	*	-	289	*	20,166
Dire Dawa	Holder	24,690	*	-	*	*	26,815
	Hectare	12,293	*	-	*	*	13,699

Table 8: Number of Holders reporting Oxen, 2017/18

Geographical Area	No ox	One ox	Two oxen	Three oxen	Four oxen	Five oxen
Ethiopia	7,212,511	3,841,062	4,824,897	422,991	384,944	104,737
Tigray Region	352,719	256,712	320,634	36,109	17,583	*
Afar Region	7,717	1,513	*	*	*	-
Amhara Region	1,779,905	1,370,059	1,645,870	152,287	49,325	18,454
Oromia Region	2,888,385	1,399,789	2,168,721	179,225	261,747	67,736
Somali Region	111,140	12,126	19,724	*	905	*
Benishangul – Gumuz	160,238	20,391	45,266	4,573	5,302	2,355
S.N.N.P Region	1,842,703	768,619	616,105	49,133	49,704	13,742
Gambella Region	21,279	1,298	1,395	*	*	-
Harari Region	30,433	4,411	1,773	-	-	-
Dire Dawa	17,992	6,146	2,389	-	-	-

Table 9: Number of Holders Reporting Oxen Shortage by Coping Strategy, 2017/18

Geographical Area	Coping strategy						
	Renting oxen	Pairing with Someone's ox	Pairing with horse/cow	Using horse / cow	Digging by hand	Borrowing oxen	Others
Ethiopia	1,096,985	3,007,945	374,768	261,718	2,427,780	3,244,958	639,418
Tigray Region	99,350	192,144	27,958	18,891	43,458	161,746	65,884
Afar Region	3,840	*	-	-	934	1,965	*
Amhara Region	266,183	988,651	238,268	205,080	214,065	1,045,193	192,523
Oromia Region	476,082	1,141,376	64,616	27,732	926,504	1,395,432	256,432
Somali Region	17,366	8,810	-	*	32,717	9,737	54,048
Benishangul – Gumuz	24,010	11,472	6,085	4,896	93,254	35,140	5,772
S.N.N.P Region	207,848	655,120	36,886	*	1,067,752	584,396	55,752
Gambella Region	578	1,189	*	*	16,531	1,690	2,343
Harari Region	*	2,988	*	*	22,600	2,825	3,404
Dire Dawa	-	4,860	*	-	9,966	6,835	*

Table 10: Total Area and Crop harvesting frequency by crop type, 2017/18

National			
Crop Type	Area	Once	Twice
All	14,582,195	14,482,884	99,311
Cereals	10,232,582	10,162,251	70,331
Teff	3,023,284	3,009,921	13,363
Barley	951,993	939,779	12,214
Wheat	1,696,907	1,690,298	6,609
Maize	2,128,949	2,107,013	21,936
Sorghum	1,896,389	1,893,916	*
Finger millet	456,057	454,311	*
Oats / 'Aja'	25,896	25,739	*
Rice	53,107	41,275	*
Pulses	1,598,807	1,579,415	19,391
Horse / Faba beans	437,106	435,678	*
Field Peas	220,508	219,681	*
Haricot beans white	89,383	89,090	293.07
Haricot beans red	216,804	209,390	7,414
Chick peas	242,704	238,956	3,748
Lentils	119,046	119,046	-
Vetch / Grass peas	143,086	137,844	*
Soya beans	38,073	37,874	*
Fenugreek	32,587	32,516	*
Mung bean/'Masho'/'	41,633	41,465	*
Gibto	17,877	17,877	-
Oilseeds	846,494	846,220	274
Neug	290,495	290,463	*
Linseed	79,045	79,043	*
Groundnuts	80,842	80,842	-
Safflower	7,967	7,967	-
Sesame	370,141	370,062	*
Rapeseed	18,005	17,844	*
Vegetables	208,986	206,841	2,145
Lettuce	145	145	-
Head cabbage	6,007	5,814	*
Ethiopian cabbage	34,128	33,569	*
Tomatoes	5,235	4,647	*
Green peppers	10,207	10,029	178
Red peppers	152,753	152,125	*
Swiss chard	0	0	*
Root crops	233,290	228,533	4,757
Beetroot	2,890	2,847	*
Carrot	4,903	4,898	*
Onion	31,673	28,534	*
Potatoes	69,611	68,902	709
Yam	5,356	5,356	-
Garlic	19,412	19,387	26
Taro 'Godere'	45,995	45,973	*
Sweet potatoes	53,449	52,635	*
Other Temporary	95,015	94,857	159
Permanent crops	104,422	104,294	128
Avocado	18,021	17,980	*
Bananas	59,298	59,241	*
Guava	2,470	2,465	*
Lemons	1,460	1,460	-
Mangoes	15,373	15,368	*
Oranges	3,706	3,704	*
Papayas	3,484	3,467	*
Pineapples	610	610	-
Stimulant Crops	1,019,229	1,017,551	*
Chat	262,072	260,965	*
Coffee	725,961	725,399	*
Hops / 'Gesho'	31,196	31,186	*
Enset	197,231	196,787	*
Sugar cane	29,536	29,535	*
Other permanent	16,602	16,602	*

Table 10.1: Total Area and Crop harvesting frequency by crop type, 2017/18

Tigray

Crop Type	Area	Once	Twice
All	958,238	954,944	3,294
Cereals	769,671	766,753	2,918
Teff	167,749	166,947	*
Barley	94,725	94,707	*
Wheat	107,930	107,561	*
Maize	62,162	61,289	*
Sorghum	254,656	253,799	*
Finger millet	82,022	82,022	-
Oats / 'Aja'	*	*	-
Rice	*	*	-
Pulses	37,231	36,977	*
Horse / Faba beans	10,526	10,526	-
Field Peas	5,308	5,308	-
Haricot beans white	2,104	2,104	-
Haricot beans red	1,228	1,228	-
Chick peas	6,846	6,592	*
Lentils	5,690	5,690	-
Vetch / Grass peas	5,130	5,130	-
Soya beans	*	*	-
Fenugreek	368	368	-
Mung bean/'Masho'/	-	-	-
Gibto	-	-	-
Oilseeds	134,190	134,111	*
Neug	5,697	5,697	-
Linseed	5,199	5,199	-
Groundnuts	*	*	-
Safflower	*	*	-
Sesame	122,325	122,247	*
Rapeseed	*	*	-
Vegetables	3,208	3,207	*
Lettuce	*	*	-
Head cabbage	*	*	-
Ethiopian cabbage	13	13	-
Tomatoes	769	769	*
Green peppers	689	689	*
Red peppers	1,623	1,623	-
Swiss chard	16	16	*
Root crops	1,646	1,631	*
Beetroot	*	*	-
Carrot	*	*	-
Onion	*	*	-
Potatoes	547	538	*
Yam	-	-	-
Garlic	541	535	*
Taro 'Godere'	-	-	-
Sweet potatoes	-	-	-
Other Temporary	578	578	-
Permanent crops	*	*	*
Avocado	*	*	-
Bananas	*	*	*
Guava	402	397	*
Lemons	120	120	-
Mangoes	*	*	*
Oranges	*	*	-
Papayas	*	*	-
Pineapples	-	-	-
Stimulant Crops	4,080	4,079	*
Chat	*	*	-
Coffee	*	*	-
Hops / 'Gesho'	2,385	2,385	*
Enset	-	-	-
Sugar cane	*	*	-
Other permanent	6,211	6,211	-

Table 10.2: Total Area and Crop harvesting frequency by crop type, 2017/18

Afar

Crop Type	Area	Once	Twice
All	9,778	9,352	*
Cereals	6,962	6,597	*
Teff	*	*	-
Barley	*	*	-
Wheat	-	-	-
Maize	4,308	3,943	*
Sorghum	*	*	-
Finger millet	-	-	-
Oats / 'Aja'	-	-	-
Rice	-	-	-
Pulses	*	*	-
Horse / Faba beans	-	-	-
Field Peas	-	-	-
Haricot beans white	*	*	-
Haricot beans red	*	*	-
Chick peas	-	-	-
Lentils	-	-	-
Vetch / Grass peas	-	-	-
Soya beans	-	-	-
Fenugreek	-	-	-
Mung bean/'Masho'/	*	*	-
Gibto	-	-	-
Oilseeds	*	*	-
Neug	-	-	-
Linseed	-	-	-
Groundnuts	-	-	-
Safflower	*	*	-
Sesame	*	*	-
Rapeseed	-	-	-
Vegetables	*	*	*
Lettuce	-	-	-
Head cabbage	-	-	-
Ethiopian cabbage	-	-	-
Tomatoes	*	4	*
Green peppers	*	*	*
Red peppers	*	*	-
Swiss chard	-	-	-
Root crops	*	*	*
Beetroot	-	-	-
Carrot	-	-	-
Onion	*	*	-
Potatoes	-	-	-
Yam	-	-	-
Garlic	-	-	-
Taro 'Godere'	-	-	-
Sweet potatoes	*	-	*
Other Temporary	*	*	-
Permanent crops	8	8	-
Avocado	-	-	-
Bananas	*	*	-
Guava	*	*	-
Lemons	*	*	-
Mangoes	*	*	-
Oranges	-	-	-
Papayas	*	*	-
Pineapples	-	-	-
Stimulant Crops	-	-	-
Chat	-	-	-
Coffee	-	-	-
Hops / 'Gesho'	-	-	-
Enset	-	-	-
Sugar cane	-	-	-
Other permanent	321	321	-

Table 10.3: Total Area and Crop harvesting frequency by crop type, 2017/18

Amhara

Crop Type	Area	Once	Twice
All	4,661,433	4,607,987	53,445
Cereals	3,499,684	3,461,163	38,521
Teff	1,138,031	1,133,135	4,895
Barley	323,936	314,724	9,213
Wheat	554,662	552,004	2,658
Maize	520,117	513,159	6,958
Sorghum	672,492	671,198	*
Finger millet	246,523	244,852	*
Oats / 'Aja'	4,095	4,095	-
Rice	39,830	27,997	*
Pulses	677,843	664,466	13,377
Horse / Faba beans	150,935	150,621	*
Field Peas	81,168	80,973	*
Haricot beans white	38,041	37,958	*
Haricot beans red	29,609	25,282	*
Chick peas	132,281	129,100	3,181
Lentils	69,988	69,988	-
Vetch / Grass peas	97,273	92,361	*
Soya beans	*	*	*
Fenugreek	15,669	15,669	-
Mung bean/'Masho'/	31,671	31,502	*
Gibto	17,135	17,135	-
Oilseeds	301,817	301,653	*
Neug	79,509	79,477	*
Linseed	25,746	25,746	-
Groundnuts	6,012	6,012	-
Safflower	6,696	6,696	-
Sesame	171,879	171,879	-
Rapeseed	11,976	11,844	*
Vegetables	63,098	62,398	*
Lettuce	42	42	-
Head cabbage	893	892	*
Ethiopian cabbage	861	838	*
Tomatoes	1,078	1,031	*
Green peppers	1,832	1,805	*
Red peppers	58,305	57,705	*
Swiss chard	*	*	-
Root crops	41,742	41,085	657
Beetroot	249	210	*
Carrot	*	*	-
Onion	*	*	*
Potatoes	19,199	18,645	*
Yam	*	*	-
Garlic	9,028	9,015	*
Taro 'Godere'	-	-	-
Sweet potatoes	*	*	-
Other Temporary	18,858	18,848	*
Permanent crops	5,367	5,363	*
Avocado	90	90	-
Bananas	1,100	1,100	-
Guava	404	404	-
Lemons	445	445	-
Mangoes	1,349	1,345	*
Oranges	1,267	1,267	-
Papayas	713	713	-
Pineapples	-	-	-
Stimulant Crops	44,886	44,874	*
Chat	12,235	12,235	-
Coffee	9,961	9,958	*
Hops / 'Gesho'	22,690	22,681	*
Enset	-	-	-
Sugar cane	5,306	5,306	-
Other permanent	2,831	2,831	-

Table 10.4: Total Area and Crop harvesting frequency by crop type, 2017/18

Oromia

Crop Type	Area	Once	Twice
All	6,722,959	6,691,783	31,176
Cereals	4,797,159	4,774,237	22,922
Teff	1,443,848	1,436,754	*
Barley	451,279	449,081	2,198
Wheat	898,683	896,281	2,401
Maize	1,146,900	1,135,980	10,920
Sorghum	735,264	735,187	*
Finger millet	93,832	93,756	*
Oats / 'Aja'	21,254	21,097	*
Rice	*	*	-
Pulses	622,145	619,603	2,542
Horse / Faba beans	204,388	203,881	*
Field Peas	83,684	83,575	*
Haricot beans white	41,834	41,666	*
Haricot beans red	84,060	82,951	*
Chick peas	92,829	92,581	*
Lentils	42,744	42,744	-
Vetch / Grass peas	40,149	39,819	*
Soya beans	9,611	9,611	-
Fenugreek	16,418	16,347	*
Mung bean/'Masho'/'	5,814	5,814	-
Gibto	*	*	-
Oilseeds	337,990	337,981	*
Neug	193,671	193,671	-
Linseed	46,443	46,443	-
Groundnuts	47,826	47,826	-
Safflower	*	*	-
Sesame	44,425	44,425	-
Rapeseed	4,970	4,961	*
Vegetables	85,314	84,297	*
Lettuce	*	*	-
Head cabbage	3,324	3,247	*
Ethiopian cabbage	9,238	8,815	*
Tomatoes	1,752	1,303	*
Green peppers	5,611	5,570	*
Red peppers	65,024	64,995	*
Swiss chard	*	*	-
Root crops	91,088	87,276	*
Beetroot	2,098	2,097	*
Carrot	*	*	-
Onion	15,389	12,460	*
Potatoes	38,926	38,838	*
Yam	*	*	-
Garlic	8,754	8,754	-
Taro 'Godere'	5,372	5,365	*
Sweet potatoes	16,796	16,007	*
Other Temporary	28,672	28,576	*
Permanent crops	26,944	26,870	*
Avocado	4,370	4,332	*
Bananas	13,157	13,121	*
Guava	1,173	1,173	-
Lemons	177	177	-
Mangoes	6,596	6,596	-
Oranges	689	689	-
Papayas	780	780	-
Pineapples	*	*	-
Stimulant Crops	655,969	655,579	*
Chat	162,330	162,330	*
Coffee	489,799	489,410	*
Hops / 'Gesho'	3,839	3,839	-
Enset	68,806	68,492	*
Sugar cane	7,078	7,077	*
Other permanent	1,795	1,795	*

Table 10.5: Total Area and Crop harvesting frequency by crop type, 2017/18

Somali

Crop Type	Area	Once	Twice
All	88,920	88,605	*
Cereals	71,020	70,720	*
Teff	*	*	-
Barley	*	*	-
Wheat	*	*	-
Maize	23,792	23,524	*
Sorghum	41,271	41,240	*
Finger millet	-	-	-
Oats / 'Aja'	-	-	-
Rice	-	-	-
Pulses	*	*	-
Horse / Faba beans	-	-	-
Field Peas	-	-	-
Haricot beans white	-	-	-
Haricot beans red	*	*	-
Chick peas	-	-	-
Lentils	-	-	-
Vetch / Grass peas	-	-	-
Soya beans	-	-	-
Fenugreek	-	-	-
Mung bean/"Masho"/	-	-	-
Gibto	-	-	-
Oilseeds	*	*	-
Neug	-	-	-
Linseed	-	-	-
Groundnuts	*	*	-
Safflower	-	-	-
Sesame	*	*	-
Rapeseed	-	-	-
Vegetables	*	*	*
Lettuce	-	-	-
Head cabbage	-	-	-
Ethiopian cabbage	-	-	-
Tomatoes	325	325	-
Green peppers	*	*	*
Red peppers	-	-	-
Swiss chard	-	-	-
Root crops	*	*	*
Beetroot	-	-	-
Carrot	-	-	-
Onion	*	*	*
Potatoes	-	-	-
Yam	-	-	-
Garlic	*	*	-
Taro 'Godere'	-	-	-
Sweet potatoes	*	*	-
Other Temporary	*	*	-
Permanent crops	1,645	1,643	*
Avocado	-	-	-
Bananas	*	*	-
Guava	*	*	-
Lemons	*	*	-
Mangoes	*	*	-
Oranges	468	466	*
Papayas	*	*	-
Pineapples	-	-	-
Stimulant Crops	10,870	10,870	-
Chat	10,439	10,439	-
Coffee	*	*	-
Hops / 'Geshe'	-	-	-
Enset	-	-	-
Sugar cane	-	-	-
Other permanent	*	*	-

Table 10.6: Total Area and Crop harvesting frequency by crop type, 2017/18

Benshangule- Gumze

Crop Type	Area	Once	Twice
All	269,256	269,213	*
Cereals	169,256	169,230	*
Teff	24,530	24,530	-
Barley	729	729	-
Wheat	2,456	2,456	-
Maize	50,681	50,655	*
Sorghum	58,946	58,946	-
Finger millet	29,167	29,167	-
Oats / 'Aja'	*	*	-
Rice	*	*	-
Pulses	22,792	22,791	*
Horse / Faba beans	878	878	-
Field Peas	686	686	-
Haricot beans white	2,046	2,046	-
Haricot beans red	3,155	3,154	*
Chick peas	424	424	-
Lentils	*	*	-
Vetch / Grass peas	-	-	-
Soya beans	14,077	14,077	-
Fenugreek	*	*	-
Mung bean/"Masho"/	1,428	1,428	-
Gibto	*	*	-
Oilseeds	61,362	61,360	*
Neug	11,054	11,054	-
Linseed	*	*	*
Groundnuts	20,074	20,074	-
Safflower	*	*	-
Sesame	29,033	29,033	-
Rapeseed	136	136	-
Vegetables	5,121	5,121	-
Lettuce	*	*	-
Head cabbage	*	*	-
Ethiopian cabbage	162	162	-
Tomatoes	50	50	-
Green peppers	48	48	-
Red peppers	4,786	4,786	-
Swiss chard	*	*	-
Root crops	1,600	1,586	*
Beetroot	*	*	*
Carrot	*	*	-
Onion	280	269	*
Potatoes	*	*	-
Yam	*	*	-
Garlic	94	94	-
Taro 'Godere'	62	62	*
Sweet potatoes	980	980	-
Other Temporary	3,049	3,048	*
Permanent crops	2,369	2,369	-
Avocado	8	8	-
Bananas	795	795	-
Guava	122	122	-
Lemons	33	33	-
Mangoes	1,166	1,166	-
Oranges	120	120	-
Papayas	125	125	-
Pineapples	-	-	-
Stimulant Crops	3,382	3,382	-
Chat	1,401	1,401	-
Coffee	1,863	1,863	-
Hops / 'Geshe'	*	*	-
Enset	22	22	-
Sugar cane	*	*	-
Other permanent	86	86	-

Table 10.7: Total Area and Crop harvesting frequency by crop type, 2017/18

S.N.N.P

Crop Type	Area	Once	Twice
All	1,823,202	1,813,326	9,877
Cereals	892,134	887,403	4,731
Teff	248,124	247,552	*
Barley	81,161	80,375	*
Wheat	127,247	126,066	*
Maize	314,535	312,462	2,073
Sorghum	112,194	112,075	*
Finger millet	4,486	4,486	-
Oats / 'Aja'	338	338	-
Rice	*	*	-
Pulses	235,795	232,581	3,214
Horse / Faba beans	70,379	69,771	*
Field Peas	49,663	49,139	*
Haricot beans white	5,142	5,100	*
Haricot beans red	97,694	95,718	*
Chick peas	*	*	*
Lentils	603	603	-
Vetch / Grass peas	*	*	-
Soya beans	*	*	-
Fenugreek	122	122	-
Mung bean/'Masho'/	*	*	-
Gibto	*	*	-
Oilseeds	5,426	5,405	*
Neug	*	*	-
Linseed	853	853	-
Groundnuts	1,045	1,045	-
Safflower	309	309	-
Sesame	*	*	-
Rapeseed	860	840	*
Vegetables	51,223	50,947	*
Lettuce	17	17	-
Head cabbage	1,639	1,525	*
Ethiopian cabbage	23,817	23,706	*
Tomatoes	1,091	1,075	*
Green peppers	1,612	1,579	*
Red peppers	22,941	22,941	-
Swiss chard	*	*	-
Root crops	95,015	94,764	*
Beetroot	524	524	-
Carrot	*	*	*
Onion	1,298	1,154	*
Potatoes	10,771	10,715	*
Yam	5,212	5,212	-
Garlic	984	977	*
Taro 'Godere'	40,543	40,528	*
Sweet potatoes	34,868	34,844	*
Other Temporary	43,088	43,036	52
Permanent crops	65,352	65,348	*
Avocado	13,382	13,379	*
Bananas	43,346	43,346	-
Guava	270	270	-
Lemons	219	219	-
Mangoes	5,188	5,188	-
Oranges	863	863	-
Papayas	1,480	1,480	-
Pineapples	604	604	-
Stimulant Crops	285,298	284,101	*
Chat	66,069	65,036	*
Coffee	217,080	216,918	*
Hops / 'Gesho'	2,148	2,147	*
Enset	128,359	128,227	*
Sugar cane	16,384	16,384	-
Other permanent	5,129	5,129	-

Table 10.8: Total Area and Crop harvesting frequency by crop type, 2017/18

Gambela

Crop Type	Area	Once	Twice
All	14,861	14,492	*
Cereals	6,746	6,377	*
Teff	*	*	-
Barley	*	*	-
Wheat	-	-	-
Maize	4,752	4,460	*
Sorghum	1,704	1,627	*
Finger millet	*	*	-
Oats / 'Aja'	*	*	-
Rice	*	*	-
Pulses	*	*	-
Horse / Faba beans	-	-	-
Field Peas	-	-	-
Haricot beans white	3	3	-
Haricot beans red	8	8	-
Chick peas	*	*	-
Lentils	-	-	-
Vetch / Grass peas	-	-	-
Soya beans	-	-	-
Fenugreek	-	-	-
Mung bean/'Masho'/	*	*	-
Gibto	-	-	-
Oilseeds	*	*	-
Neug	-	-	-
Linseed	-	-	-
Groundnuts	*	*	-
Safflower	-	-	-
Sesame	-	-	-
Rapeseed	-	-	-
Vegetables	101	100	*
Lettuce	-	-	-
Head cabbage	-	-	-
Ethiopian cabbage	35	35	*
Tomatoes	*	*	-
Green peppers	*	*	-
Red peppers	*	*	-
Swiss chard	-	-	-
Root crops	111	111	-
Beetroot	-	-	-
Carrot	-	-	-
Onion	*	*	-
Potatoes	-	-	-
Yam	5	5	-
Garlic	*	*	-
Taro 'Godere'	19	19	-
Sweet potatoes	80	80	-
Other Temporary	694	694	*
Permanent crops	546	546	-
Avocado	150	150	-
Bananas	287	287	-
Guava	*	*	-
Lemons	3	3	-
Mangoes	53	53	-
Oranges	5	5	-
Papayas	43	43	-
Pineapples	*	*	-
Stimulant Crops	6,529	6,529	-
Chat	99	99	-
Coffee	6,415	6,415	-
Hops / 'Gesho'	*	*	-
Enset	45	45	-
Sugar cane	35	35	-
Other permanent	4	4	*

Table 10: Total Area and Crop harvesting frequency by crop type, 2017/18

Harari

Crop Type	Area	Once	Twice
All	19,943	19,690	*
Cereals	8,826	8,688	*
Teff	-	-	-
Barley	*	*	-
Wheat	*	*	-
Maize	1,398	1,260	*
Sorghum	7,316	7,316	-
Finger millet	-	-	-
Oats / 'Aja'	-	-	-
Rice	-	-	-
Pulses	23	23	-
Horse / Faba beans	*	*	-
Field Peas	-	-	-
Haricot beans white	*	*	-
Haricot beans red	*	*	-
Chick peas	*	*	-
Lentils	*	*	-
Vetch / Grass peas	-	-	-
Soya beans	-	-	-
Fenugreek	-	-	-
Mung bean/"Masho"/	-	-	-
Gibto	-	-	-
Oilseeds	2,722	2,722	-
Neug	-	-	-
Linseed	-	-	-
Groundnuts	2,659	2,659	-
Safflower	-	-	-
Sesame	*	*	-
Rapeseed	-	-	-
Vegetables	*	*	*
Lettuce	-	-	-
Head cabbage	*	*	-
Ethiopian cabbage	-	-	-
Tomatoes	*	*	-
Green peppers	*	*	*
Red peppers	-	-	-
Swiss chard	*	*	-
Root crops	92	91	*
Beetroot	-	-	-
Carrot	-	-	-
Onion	-	-	-
Potatoes	*	*	*
Yam	-	-	-
Garlic	-	-	-
Taro 'Godere'	-	-	-
Sweet potatoes	76	76	-
Other Temporary	35	35	-
Permanent crops	681	681	-
Avocado	*	*	-
Bananas	*	*	-
Guava	59	59	-
Lemons	*	*	-
Mangoes	397	397	-
Oranges	*	*	-
Papayas	*	*	-
Pineapples	-	-	-
Stimulant Crops	6,939	6,866	*
Chat	6,872	6,799	*
Coffee	*	*	-
Hops / 'Geshe'	*	*	-
Enset	*	*	-
Sugar cane	*	*	-
Other permanent	27	27	-

Table 10: Total Area and Crop harvesting frequency by crop type, 2017/18

Dire Dawa

Crop Type	Area	Once	Twice
All	13,604	13,492	*
Cereals	11,125	11,084	*
Teff	-	-	-
Barley	-	-	-
Wheat	-	-	-
Maize	304	282	*
Sorghum	10,821	10,802	*
Finger millet	-	-	-
Oats / 'Aja'	-	-	-
Rice	-	-	-
Pulses	526	523	*
Horse / Faba beans	-	-	-
Field Peas	-	-	-
Haricot beans white	206	206	*
Haricot beans red	319	317	*
Chick peas	-	-	-
Lentils	-	-	-
Vetch / Grass peas	-	-	-
Soya beans	-	-	-
Fenugreek	-	-	-
Mung bean/'Masho'/	-	-	-
Gibto	-	-	-
Oilseeds	*	*	-
Neug	-	-	-
Linseed	-	-	-
Groundnuts	*	*	-
Safflower	-	-	-
Sesame	103	103	-
Rapeseed	-	-	-
Vegetables	101	60	*
Lettuce	-	-	-
Head cabbage	-	-	-
Ethiopian cabbage	*	*	-
Tomatoes	*	40	*
Green peppers	16	16	-
Red peppers	*	*	-
Swiss chard	-	-	-
Root crops	70	70	-
Beetroot	-	-	-
Carrot	-	-	-
Onion	*	*	-
Potatoes	-	-	-
Yam	-	-	-
Garlic	*	*	-
Taro 'Godere'	-	-	-
Sweet potatoes	27	27	-
Other Temporary	23	23	-
Permanent crops	97	79	*
Avocado	-	-	-
Bananas	*	*	-
Guava	9	9	-
Lemons	1	1	-
Mangoes	14	14	-
Oranges	*	*	-
Papayas	*	*	*
Pineapples	-	-	-
Stimulant Crops	1,277	1,270	*
Chat	1,140	1,140	-
Coffee	*	*	*
Hops / 'Gesho'	-	-	-
Enset	-	-	-
Sugar cane	-	-	-
Other permanent	9	9	*

Table 11: Number of Plots by Type of Sowing, 2017/18

National

Crop Type	Type of Sowing			
	Broadcast	%	Row	%
All	89,271,291	100.00	23,795,166	100.00
Cereals	46,868,688	52.50	13,338,062	56.05
Teff	12,374,905	13.86	531,362	2.23
Barley	5,957,606	6.67	226,954	0.95
Wheat	6,711,585	7.52	997,327	4.19
Maize	9,789,433	10.97	10,354,082	43.51
Sorghum	9,288,795	10.41	984,173	4.14
Finger millet	2,168,819	2.43	205,433	0.86
Oats / 'Aja'	240,161	0.27	9,949	0.04
Rice	337,384	0.38	*	*
Pulses	15,251,494	17.08	2,054,458	8.63
Horse / Faba beans	4,054,635	4.54	850,760	3.58
Field Peas	2,233,336	2.50	146,502	0.62
Haricot beans white	1,381,213	1.55	140,885	0.59
Haricot beans red	3,434,529	3.85	764,525	3.21
Chick peas	851,806	0.95	55,467	0.23
Lentils	1,268,456	1.42	18,623	0.08
Vetch / Grass peas	611,723	0.69	4,077	0.02
Soya beans	147,218	0.16	32,472	0.14
Fenugreek	762,832	0.85	25,764	0.11
Mung bean/"Masho"/	444,753	0.50	12,749	0.05
Gibto	60,993	0.07	*	*
Oilseeds	4,633,671	5.19	683,472	2.87
Neug	1,286,282	1.44	15,107	0.06
Linseed	1,019,671	1.14	19,543	0.08
Groundnuts	199,028	0.22	557,696	2.34
Safflower	306,058	0.34	18,600	0.08
Sesame	998,399	1.12	26,032	0.11
Rapeseed	824,233	0.92	46,495	0.20
Vegetables	8,381,140	9.39	2,620,145	11.01
Lettuce	35,848	0.04	7,981	0.03
Head cabbage	432,954	0.48	265,110	1.11
Ethiopian cabbage	4,080,748	4.57	755,242	3.17
Tomatoes	234,790	0.26	74,176	0.31
Green peppers	1,634,490	1.83	439,077	1.85
Red peppers	1,863,412	2.09	1,040,199	4.37
Swiss chard	98,898	0.11	38,361	0.16
Root crops	8,455,954	9.47	4,076,287	17.13
Beetroot	415,750	0.47	195,812	0.82
Carrot	127,280	0.14	125,630	0.53
Onion	743,211	0.83	330,530	1.39
Potatoes	554,768	0.62	863,617	3.63
Yam	346,725	0.39	109,264	0.46
Garlic	1,907,586	2.14	889,533	3.74
Taro 'Godere'	3,219,198	3.61	572,275	2.41
Sweet potatoes	1,141,436	1.28	989,627	4.16
Other Temporary	5,680,344	6.36	1,022,742	4.30

Table 11.1: Number of Plots by Type of Sowing

Tigray

Crop Type	Type of Sowing			
	Broadcast	%	Row	%
All	5,945,841	100.00	327,100	100.00
Cereals	4,471,360	75.20	241,936	73.96
Teff	900,820	15.15	21,416	6.55
Barley	760,712	12.79	4,307	1.32
Wheat	745,260	12.53	35,313	10.80
Maize	757,668	12.74	123,617	37.79
Sorghum	892,877	15.02	53,565	16.38
Finger millet	412,524	6.94	3,719	1.14
Oats / 'Aja'	*	*	-	-
Rice	*	*	-	-
Pulses	552,198	9.29	8,982	2.75
Horse / Faba beans	223,615	3.76	5,620	1.72
Field Peas	82,961	1.40	*	*
Haricot beans white	29,696	0.50	*	*
Haricot beans red	12,308	0.21	-	-
Chick peas	45,815	0.77	-	-
Lentils	86,387	1.45	-	-
Vetch / Grass peas	38,855	0.65	*	*
Soya beans	*	*	-	-
Fenugreek	31,643	0.53	*	*
Mung bean/'Masho'	-	-	-	-
Gibto	-	-	-	-
Oilseeds	344,327	5.79	*	*
Neug	80,065	1.35	*	*
Linseed	63,601	1.07	*	*
Groundnuts	*	*	*	*
Safflower	*	*	-	-
Sesame	187,975	3.16	*	*
Rapeseed	*	*	-	-
Vegetables	361,232	6.08	37,468	11.45
Lettuce	6,896	0.12	-	-
Head cabbage	6,572	0.11	*	*
Ethiopian cabbage	6,841	0.12	-	-
Tomatoes	42,882	0.72	7,723	2.36
Green peppers	61,082	1.03	13,400	4.10
Red peppers	229,491	3.86	10,346	3.16
Swiss chard	7,467	0.13	3,925	1.20
Root crops	171,307	2.88	28,190	8.62
Beetroot	*	*	*	*
Carrot	*	*	*	*
Onion	15,109	0.25	5,894	1.80
Potatoes	20,271	0.34	6,366	1.95
Yam	-	-	-	-
Garlic	134,505	2.26	14,320	4.38
Taro 'Godere'	-	-	-	-
Sweet potatoes	-	-	-	-
Other Temporary	45,417	0.76	*	*

Table 11.2: Number of Plots by type of Sowing

Afar

Crop Type	Type of Sowing			
	Broadcast	%	Row	%
All	*	*	8,211	100.00
Cereals	*	*	5,599	68.19
Teff	*	*	-	-
Barley	-	-	*	*
Wheat	-	-	-	-
Maize	2,354	*	5,382	65.55
Sorghum	*	*	*	*
Finger millet	-	-	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	*	*	*	*
Horse / Faba beans	-	-	-	-
Field Peas	-	-	-	-
Haricot beans white	*	*	-	-
Haricot beans red	*	*	*	*
Chick peas	-	-	-	-
Lentils	-	-	-	-
Vetch / Grass peas	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	-	-	-	-
Mung bean/"Masho"/	*	*	*	*
Gibto	-	-	-	-
Oilseeds	*	*	*	*
Neug	-	-	-	-
Linseed	-	-	-	-
Groundnuts	-	-	-	-
Safflower	*	*	-	-
Sesame	*	*	*	*
Rapeseed	-	-	-	-
Vegetables	*	*	1,486	18.10
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	-	-	-	-
Tomatoes	*	*	585	7.12
Green peppers	*	*	*	*
Red peppers	*	*	*	*
Swiss chard	-	-	-	-
Root crops	*	*	*	*
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	*	*	*	*
Potatoes	-	-	-	-
Yam	-	-	-	-
Garlic	-	-	-	-
Taro 'Godere'	-	-	-	-
Sweet potatoes	-	-	*	*
Other Temporary	*	*	*	*

Table 11.3 : Number of Plots by Type of Sowing

Amahara

Crop Type	Type of Sowing			
	Broadcast	%	Row	%
All	29,940,781	100.00	5,882,707	100.00
Cereals	17,988,325	60.08	3,573,267	60.74
Teff	5,076,584	16.96	166,483	2.83
Barley	2,567,646	8.58	42,582	0.72
Wheat	3,099,472	10.35	484,186	8.23
Maize	2,331,642	7.79	2,715,167	46.16
Sorghum	3,559,146	11.89	143,778	2.44
Finger millet	993,173	3.32	21,070	0.36
Oats / 'Aja'	65,180	0.22	-	-
Rice	295,481	0.99	-	-
Pulses	5,840,031	19.51	412,701	7.02
Horse / Faba beans	1,490,737	4.98	283,756	4.82
Field Peas	984,046	3.29	43,541	0.74
Haricot beans white	391,448	1.31	*	*
Haricot beans red	382,617	1.28	21,176	0.36
Chick peas	496,749	1.66	*	*
Lentils	828,230	2.77	6,708	0.11
Vetch / Grass peas	413,726	1.38	*	*
Soya beans	67,621	0.23	*	*
Fenugreek	354,701	1.18	6,001	0.10
Mung bean/'Masho'/	372,722	1.24	*	*
Gibto	57,433	0.19	*	*
Oilseeds	2,061,675	6.89	89,230	1.52
Neug	434,392	1.45	7,860	0.13
Linseed	573,066	1.91	5,213	0.09
Groundnuts	45,865	0.15	64,595	1.10
Safflower	237,643	0.79	*	*
Sesame	480,598	1.61	*	*
Rapeseed	290,111	0.97	8,896	0.15
Vegetables	1,636,064	5.46	734,629	12.49
Lettuce	14,528	0.05	-	-
Head cabbage	86,186	0.29	61,118	1.04
Ethiopian cabbage	373,973	1.25	17,765	0.30
Tomatoes	67,343	0.22	17,281	0.29
Green peppers	288,591	0.96	93,284	1.59
Red peppers	780,857	2.61	536,312	9.12
Swiss chard	24,587	0.08	8,870	0.15
Root crops	1,648,193	5.50	1,000,705	17.01
Beetroot	49,185	0.16	22,479	0.38
Carrot	24,805	0.08	6,862	0.12
Onion	289,511	0.97	99,171	1.69
Potatoes	233,218	0.78	393,564	6.69
Yam	*	*	*	*
Garlic	1,025,554	3.43	446,548	7.59
Taro 'Godere'	-	-	-	-
Sweet potatoes	25,113	0.08	26,273	0.45
Other Temporary	766,492	2.56	72,174	1.23

Table 11.4: Number of Plots by Type of Sowing

Oromia

Crop Type	Type of Sowing			
	Broadcast	%	Row	%
All	33,050,273	100.00	11,181,474	100.00
Cereals	17,989,004	54.43	6,691,997	59.85
Teff	5,030,132	15.22	109,109	0.98
Barley	1,957,408	5.92	52,522	0.47
Wheat	2,424,850	7.34	176,847	1.58
Maize	4,454,366	13.48	5,568,604	49.80
Sorghum	3,269,394	9.89	639,801	5.72
Finger millet	666,451	2.02	114,226	1.02
Oats / 'Aja'	165,815	0.50	5,604	0.05
Rice	*	*	*	*
Pulses	5,417,711	16.39	795,490	7.11
Horse / Faba beans	1,521,887	4.60	285,771	2.56
Field Peas	669,237	2.02	38,325	0.34
Haricot beans white	839,443	2.54	110,993	0.99
Haricot beans red	1,210,023	3.66	307,440	2.75
Chick peas	272,209	0.82	13,425	0.12
Lentils	313,203	0.95	9,210	0.08
Vetch / Grass peas	156,151	0.47	*	*
Soya beans	49,711	0.15	8,714	0.08
Fenugreek	347,826	1.05	17,441	0.16
Mung bean/"Masho"/	36,298	0.11	*	*
Gibto	*	*	*	*
Oilseeds	1,862,910	5.64	472,748	4.23
Neug	722,860	2.19	5,874	0.05
Linseed	319,754	0.97	9,368	0.08
Groundnuts	96,091	0.29	392,509	3.51
Safflower	44,859	0.14	12,146	0.11
Sesame	227,368	0.69	20,720	0.19
Rapeseed	451,978	1.37	32,131	0.29
Vegetables	3,485,620	10.55	1,058,351	9.47
Lettuce	9,381	0.03	*	*
Head cabbage	281,165	0.85	129,509	1.16
Ethiopian cabbage	1,474,079	4.46	198,143	1.77
Tomatoes	59,158	0.18	32,515	0.29
Green peppers	954,893	2.89	274,633	2.46
Red peppers	656,440	1.99	409,328	3.66
Swiss chard	50,504	0.15	10,806	0.10
Root crops	2,348,980	7.11	1,727,738	15.45
Beetroot	295,111	0.89	125,456	1.12
Carrot	59,497	0.18	74,996	0.67
Onion	322,383	0.98	152,142	1.36
Potatoes	155,997	0.47	280,336	2.51
Yam	16,312	0.05	*	*
Garlic	626,035	1.89	353,857	3.16
Taro 'Godere'	658,192	1.99	149,527	1.34
Sweet potatoes	215,453	0.65	583,606	5.22
Other Temporary	1,946,047	5.89	435,150	3.89

Table 11.5: Number of Plots by Type of Sowing

Somalia

Crop Type	Type of Sowing			
	Broadcast	%	Row	%
All	198,382	100.00	*	*
Cereals	243,030	100.00	29,765	100.00
Teff	215,588	88.71	13,656	45.88
Barley	*	*	-	-
Wheat	*	*	-	-
Maize	*	*	-	-
Sorghum	82,876	34.10	9,459	31.78
Finger millet	127,461	52.45	4,197	14.10
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	-	-	-	-
Horse / Faba beans	*	*	-	-
Field Peas	-	-	-	-
Haricot beans white	-	-	-	-
Haricot beans red	-	-	-	-
Chick peas	*	*	-	-
Lentils	-	-	-	-
Vetch / Grass peas	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	-	-	-	-
Mung bean/"Masho"/	-	-	-	-
Gibto	-	-	-	-
Oilseeds	-	-	-	-
Neug	*	*	*	*
Linseed	-	-	-	-
Groundnuts	-	-	-	-
Safflower	*	*	*	*
Sesame	-	-	-	-
Rapeseed	*	*	*	*
Vegetables	-	-	-	-
Lettuce	*	*	*	*
Head cabbage	-	-	-	-
Ethiopian cabbage	-	-	-	-
Tomatoes	-	-	-	-
Green peppers	*	*	*	*
Red peppers	*	*	*	*
Swiss chard	-	-	-	-
Root crops	-	-	-	-
Beetroot	13,738	5.65	*	*
Carrot	-	-	-	-
Onion	-	-	-	-
Potatoes	*	*	*	*
Yam	-	-	-	-
Garlic	-	-	-	-
Taro 'Godere'	*	*	-	-
Sweet potatoes	-	-	-	-
Other Temporary	*	*	*	*

Table 11.6 : Number of Plots by Type of Sowing
Benshangule-Gumze

Crop Type	Type of Sowing			
	Broadcast	%	Row	%
All	1,175,026	100.00	436,239	100.00
Cereals	541,530	46.09	216,572	49.65
Teff	59,025	5.02	2,035	0.47
Barley	5,247	0.45	*	*
Wheat	6,334	0.54	*	*
Maize	218,480	18.59	192,051	44.02
Sorghum	189,979	16.17	16,252	3.73
Finger millet	58,674	4.99	2,020	0.46
Oats / 'Aja'	*	*	-	-
Rice	*	*	*	*
Pulses	153,579	13.07	33,336	7.64
Horse / Faba beans	8,956	0.76	*	*
Field Peas	3,785	0.32	*	*
Haricot beans white	21,789	1.85	3,594	0.82
Haricot beans red	78,856	6.71	15,004	3.44
Chick peas	*	*	*	*
Lentils	*	*	-	-
Vetch / Grass peas	-	-	-	-
Soya beans	23,196	1.97	9,837	2.25
Fenugreek	*	*	-	-
Mung bean/"Masho"/	13,979	1.19	*	*
Gibto	*	*	-	-
Oilseeds	183,787	15.64	67,268	15.42
Neug	47,498	4.04	*	*
Linseed	13,439	1.14	1,219	0.28
Groundnuts	27,266	2.32	63,394	14.53
Safflower	2,681	0.23	910	0.21
Sesame	85,020	7.24	1,263	0.29
Rapeseed	7,883	0.67	-	-
Vegetables	73,542	6.26	24,829	5.69
Lettuce	*	*	*	*
Head cabbage	3,093	0.26	4,187	0.96
Ethiopian cabbage	18,319	1.56	*	*
Tomatoes	9,018	0.77	2,112	0.48
Green peppers	8,819	0.75	2,760	0.63
Red peppers	32,800	2.79	14,338	3.29
Swiss chard	*	*	-	-
Root crops	87,850	7.48	71,795	16.46
Beetroot	1,653	0.14	2,176	0.50
Carrot	*	*	*	*
Onion	9,135	0.78	10,122	2.32
Potatoes	*	*	2,584	0.59
Yam	*	*	-	-
Garlic	13,884	1.18	3,102	0.71
Taro 'Godere'	10,822	0.92	6,014	1.38
Sweet potatoes	47,677	4.06	47,276	10.84
Other Temporary	134,739	11.47	22,440	5.14

Table 11.7 : Number of Plots by Type of Sowing

S.N.N.P

Crop Type	Type of Sowing			
	Broadcast	%	Row	%
All	18,639,050	100.00	5,791,089	100.00
Cereals	5,472,473	29.36	2,500,465	43.18
Teff	1,305,041	7.00	232,320	4.01
Barley	665,047	3.57	126,911	2.19
Wheat	429,847	2.31	295,406	5.10
Maize	1,907,577	10.23	1,693,971	29.25
Sorghum	1,102,853	5.92	79,974	1.38
Finger millet	37,745	0.20	64,399	1.11
Oats / 'Aja'	7,678	0.04	*	*
Rice	16,686	0.09	*	*
Pulses	3,255,027	17.46	802,249	13.85
Horse / Faba beans	809,334	4.34	272,888	4.71
Field Peas	493,307	2.65	62,737	1.08
Haricot beans white	90,262	0.48	19,208	0.33
Haricot beans red	1,732,403	9.29	420,000	7.25
Chick peas	35,663	0.19	12,416	0.21
Lentils	39,642	0.21	*	*
Vetch / Grass peas	*	*	*	*
Soya beans	5,771	0.03	*	*
Fenugreek	27,602	0.15	*	*
Mung bean/"Masho"/	16,388	0.09	4,928	0.09
Gibto	*	*	*	*
Oilseeds	160,129	0.86	19,395	0.33
Neug	*	*	*	*
Linseed	49,811	0.27	3,297	0.06
Groundnuts	15,359	0.08	5,605	0.10
Safflower	17,562	0.09	*	*
Sesame	*	*	-	-
Rapeseed	66,936	0.36	5,467	0.09
Vegetables	2,805,650	15.05	750,138	12.95
Lettuce	4,565	0.02	*	*
Head cabbage	55,802	0.30	67,929	1.17
Ethiopian cabbage	2,201,583	11.81	538,124	9.29
Tomatoes	49,929	0.27	7,672	0.13
Green peppers	316,274	1.70	48,804	0.84
Red peppers	162,169	0.87	68,904	1.19
Swiss chard	15,327	0.08	14,600	0.25
Root crops	4,177,101	22.41	1,231,194	21.26
Beetroot	69,354	0.37	45,183	0.78
Carrot	41,278	0.22	42,159	0.73
Onion	94,325	0.51	57,157	0.99
Potatoes	144,100	0.77	179,762	3.10
Yam	325,865	1.75	95,353	1.65
Garlic	106,853	0.57	71,464	1.23
Taro 'Godere'	2,546,620	13.66	415,685	7.18
Sweet potatoes	848,705	4.55	324,432	5.60
Other Temporary	2,768,671	14.85	487,648	8.42

Table 11.8 : Number of Plots by Type of Sowing

Gambella

Crop Type	Type of Sowing			
	Broadcast	%	Row	%
All	52,234	100.00	26,985	100.00
Cereals	21,638	41.43	19,883	73.68
Teff	*	*	-	-
Barley	*	*	-	-
Wheat	-	-	-	-
Maize	10,066	19.27	19,219	71.22
Sorghum	9,481	18.15	508	1.88
Finger millet	*	*	-	-
Oats / 'Aja'	*	*	-	-
Rice	*	*	*	*
Pulses	2,914	5.58	943	3.49
Horse / Faba beans	-	-	-	-
Field Peas	-	-	-	-
Haricot beans white	*	*	522	1.93
Haricot beans red	1,729	3.31	*	*
Chick peas	*	*	-	-
Lentils	-	-	-	-
Vetch / Grass peas	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	-	-	-	-
Mung bean/'Masho'/'	*	*	-	-
Gibto	-	-	-	-
Oilseeds	-	-	*	*
Neug	-	-	-	-
Linseed	-	-	-	-
Groundnuts	-	-	*	*
Safflower	-	-	-	-
Sesame	-	-	-	-
Rapeseed	-	-	-	-
Vegetables	9,273	17.75	726	2.69
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	5,953	11.40	*	*
Tomatoes	505	0.97	*	*
Green peppers	1,513	2.90	*	*
Red peppers	*	*	319	1.18
Swiss chard	-	-	-	-
Root crops	6,141	11.76	3,527	13.07
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	*	*	*	*
Potatoes	-	-	-	-
Yam	967	1.85	*	*
Garlic	-	-	*	*
Taro 'Godere'	3,563	6.82	*	*
Sweet potatoes	1,497	2.87	1,994	7.39
Other Temporary	12,268	23.49	1,840	6.82

Table 11.9 : Number of Plots by Type of Sowing

Harari

Crop Type	Type of Sowing			
	Broadcast	%	Row	%
All	66,208	100.00	102,592	100.00
Cereals	53,250	80.43	73,388	71.53
Teff	-	-	-	-
Barley	*	*	-	-
Wheat	1,770	2.67	2,088	2.04
Maize	11,397	17.21	26,484	25.81
Sorghum	39,729	60.01	44,816	43.68
Finger millet	-	-	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	1,025	1.55	*	*
Horse / Faba beans	*	*	-	-
Field Peas	-	-	-	-
Haricot beans white	*	*	*	*
Haricot beans red	*	*	-	-
Chick peas	*	*	-	-
Lentils	*	*	-	-
Vetch / Grass peas	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	-	-	-	-
Mung bean/"Masho"/	-	-	-	-
Gibto	-	-	-	-
Oilseeds	*	*	22,054	21.50
Neug	-	-	-	-
Linseed	-	-	-	-
Groundnuts	*	*	21,631	21.08
Safflower	-	-	-	-
Sesame	*	*	*	*
Rapeseed	-	-	-	-
Vegetables	*	*	*	*
Lettuce	-	-	-	-
Head cabbage	*	*	*	*
Ethiopian cabbage	-	-	-	-
Tomatoes	-	-	*	*
Green peppers	*	*	*	*
Red peppers	-	-	-	-
Swiss chard	-	-	*	*
Root crops	*	*	3,788	3.69
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	-	-	-	-
Potatoes	-	-	*	*
Yam	-	-	-	-
Garlic	-	-	-	-
Taro 'Godere'	-	-	-	-
Sweet potatoes	*	*	2,782	2.71
Other Temporary	4,878	7.37	*	*

Table 11.10 : Number of Plots by Type of Sowing

Dire Dawa

Crop Type	Type of Sowing			
	Broadcast	%	Row	%
All	140,409	100.00	*	*
Cereals	105,760	75.32	*	*
Teff	-	-	-	-
Barley	-	-	-	-
Wheat	-	-	-	-
Maize	13,008	9.26	*	*
Sorghum	92,752	66.06	*	*
Finger millet	-	-	-	-
Oats / 'Aja'	-	-	-	-
Rice	-	-	-	-
Pulses	22,631	16.12	*	*
Horse / Faba beans	-	-	-	-
Field Peas	-	-	-	-
Haricot beans white	7,586	5.40	-	-
Haricot beans red	15,045	10.72	*	*
Chick peas	-	-	-	-
Lentils	-	-	-	-
Vetch / Grass peas	-	-	-	-
Soya beans	-	-	-	-
Fenugreek	-	-	-	-
Mung bean/"Masho"/	-	-	-	-
Gibto	-	-	-	-
Oilseeds	5,335	3.80	*	*
Neug	-	-	-	-
Linseed	-	-	-	-
Groundnuts	1,876	1.34	*	*
Safflower	-	-	-	-
Sesame	3,459	2.46	-	-
Rapeseed	-	-	-	-
Vegetables	3,530	2.51	2,026	*
Lettuce	-	-	-	-
Head cabbage	-	-	-	-
Ethiopian cabbage	-	-	*	*
Tomatoes	*	*	1,395	*
Green peppers	1,158	0.82	*	*
Red peppers	*	*	*	*
Swiss chard	-	-	-	-
Root crops	*	*	2,045	*
Beetroot	-	-	-	-
Carrot	-	-	-	-
Onion	*	*	*	*
Potatoes	-	-	-	-
Yam	-	-	-	-
Garlic	*	*	*	*
Taro 'Godere'	-	-	-	-
Sweet potatoes	*	*	1,592	*
Other Temporary	1,711	1.22	-	-

Table 12: Number of Holders by land use area before the crop calender year, 2017/18

Geographic area	All Holders	Fallow Land	Crop Land	Pasture,Forest & Marginal Land	Crop Land Owned by other holder	Others
National	17,640,621	615,498	13,896,680	2,030,512	864,962	484,351
Tigray Region	1,025,758	72,704	850,204	22,554	62,283	33,590
Afar Region	53,565	1,276	17,816	1,296	1,899	2,032
Amhara Region	5,122,137	109,890	4,350,181	492,898	372,566	121,303
Oromia Region	7,336,839	355,375	6,510,831	1,185,735	347,305	251,668
Somali Region	204,425	2,523	89,184	29,365	*	10,582
Benishangul – Gumuz	246,674	16,296	215,614	14,999	33,985	4,247
S.N.N.P Region	3,536,673	56,766	1,815,613	279,582	45,094	59,138
Gambella Region	38,040	498	13,665	857	*	*
Harari Region	39,230	*	19,798	479	*	773
Dire Dawa	37,279	*	13,774	2,747	-	939

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

APPENDIX I : Estimation Procedures of Totals, Ratios and Sampling Errors

The following formulas were used to estimate total area of land under specific crop, total holders, quantity of fertilizer applied and seed sowed, and ratios 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 households 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:

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

Where:

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

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

W_{hi} is as defined above.

3. For Estimating Quantity of Fertilizer and seed in Stratum h :

$$\hat{Q}_h = \sum_{i=1}^{n_h} W_{hi} q_{hi}$$

where,

\hat{Q}_h is estimate of total quantity of a specific fertilizer applied or seed sowed for a specific crop land in the h^{th} stratum.

q_{hi} is the sample total of a specific fertilizer applied or seed sowed for a specific crop land in the i^{th} EA in the h^{th} stratum.

W_{hi} is as defined above.

4. For Estimating Ratios in Stratum h :

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

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

5. Sampling Variance of Estimates:

Sampling variance for the estimate of stratum total of area for a specific crop and holders, and ratios are estimated by the following formulas.

$$\begin{aligned}
Var(\hat{A}_h) &= (1-f_h) \frac{n_h}{n_h-1} \sum_{i=1}^{n_h} \left(\hat{A}_{hi} - \frac{\hat{A}_h}{n_h} \right)^2 + f_h \sum_{i=1}^{n_h} (1-f_{hi}) \left(\frac{h_{hi}}{h_{hi}-1} \right) \sum_{j=1}^{h_{hi}} \left(\hat{A}_{hij} - \frac{\hat{A}_{hi}}{h_{hi}} \right)^2 \\
Var(\hat{Y}_h) &= (1-f_h) \frac{n_h}{n_h-1} \sum_{i=1}^{n_h} \left(\hat{Y}_{hi} - \frac{\hat{Y}_h}{n_h} \right)^2 + f_h \sum_{i=1}^{n_h} (1-f_{hi}) \left(\frac{h_{hi}}{h_{hi}-1} \right) \sum_{j=1}^{h_{hi}} \left(\hat{Y}_{hij} - \frac{\hat{Y}_{hi}}{h_{hi}} \right)^2 \\
Var(\hat{Q}_h) &= (1-f_h) \frac{n_h}{n_h-1} \sum_{i=1}^{n_h} \left(\hat{Q}_{hi} - \frac{\hat{Q}_h}{n_h} \right)^2 + f_h \sum_{i=1}^{n_h} (1-f_{hi}) \left(\frac{h_{hi}}{h_{hi}-1} \right) \sum_{j=1}^{h_{hi}} \left(\hat{Q}_{hij} - \frac{\hat{Q}_{hi}}{h_{hi}} \right)^2 \\
Var(\hat{R}_h) &= \frac{1}{\hat{X}_h^2} \left[Var(\hat{Z}_h) + \hat{R}_h^2 Var(\hat{X}_h) - 2\hat{R}_h Cov(\hat{Z}_h, \hat{X}_h) \right]
\end{aligned}$$

Where,

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

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

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

$\hat{A}_{hi}, \hat{Y}_{hi}, \hat{Q}_{hi}, \hat{Z}_{hi}, \hat{X}_{hi}$ are weighted total area, holder, quantity of fertilizer or seed, characteristics z and x , respectively, in the i^{th} EA and h^{th} stratum.

$\hat{A}_{hij}, \hat{Y}_{hij}, \hat{Q}_{hij}, \hat{Z}_{hij}, \hat{X}_{hij}$ are weighted value of area, holder, quantity of fertilizer or seed, characteristics z and x , respectively, from j^{th} agricultural household in the i^{th} EA and h^{th} stratum.

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

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

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

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

6. Coefficient of Variation (CV) of Estimates:

Coefficient of Variations (CV's) in percentage for estimates of stratum total area, number of holders, applied fertilizer and sowed seed for a specific crop are given by:

$$\begin{aligned}
CV(\hat{A}_h) &= \frac{\sqrt{Var(\hat{A}_h)}}{\hat{A}_h} * 100, CV(\hat{Y}_h) = \frac{\sqrt{Var(\hat{Y}_h)}}{\hat{Y}_h} * 100, CV(\hat{Q}_h) = \frac{\sqrt{Var(\hat{Q}_h)}}{\hat{Q}_h} * 100, \\
CV(\hat{R}_h) &= \frac{\sqrt{Var(\hat{R}_h)}}{\hat{R}_h} * 100
\end{aligned}$$

7. 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 the standard error of the estimate of stratum total area.

Estimates of standard errors and confidence intervals for other estimates can also be calculated by adopting the above formulas.

APPENDIX II: ESTIMATES OF STANDARD ERRORS AND COEFFICIENT OF VARIATIONS

APPENDIX II:-Estimate of Inputs Applied Area, quantity of inputs used and their Standard Errors and Coefficient of Variations

Crop	All Fertilizer						DAP					
	Area (ha)			Quantity (qt)			Area (ha)			Quantity (Qt)		
	Estimate	S.E	C.V	Estimate	S.E	C.V	Estimate	S.E	C.V	Estimate	S.E	C.V
All	8277524	166230	2.01	12253735	365294	2.98	466482	49762	10.7	499653	56158	11.2
Cereals	6981097	154635	2.22	10357108	304934	2.94	369754	45682	12.4	356947	46746	13.1
Teff	2377882	95581	4.02	3230514	161837	5.01	92771	12085	13.0	77487	10044	13.0
Barley	633551	47985	7.57	651745	57480	8.82	46974	11092	23.6	46949	14592	31.1
Wheat	1486194	84583	5.69	2360935	146621	6.21	94714	29054	30.7	104911	30385	29.0
Maize	1658560	62592	3.77	3409593	162805	4.77	55818	12004	21.5	75788	13640	18.0
Sorghum	460476	31027	6.74	305376	37716	12.35	42480	8111	19.1	27397	4819	17.6
Finger millet	315575	26960	8.54	295515	30957	10.48	34813	10559	30.3	23329	7905	33.9
Oats/'Aja'	12888	3968	30.79	18770	6255	33.33	672	334	49.8	553	262	47.3
Rice	35971	12437	34.57	84660	31409	37.1	1513	1437	95.0	533	478	89.8
Pulse	448569	22814	5.09	528235	38895	7.36	59446	8040	13.5	68535	9000	13.1
Horse/Faba beans	195220	12802	6.56	190275	18855	9.91	22322	3815	17.1	23412	4033	17.2
Field peas	69437	7009	10.09	87683	9747	11.12	5710	1446	25.3	7068	1872	26.5
White Haricot beans	20228	7305	36.11	39403	20252	51.4	1107	648	58.6	3641	1494	41.0
Red Haricot beans	77463	9637	12.44	141178	15769	11.17	22576	6264	27.8	26958	7237	26.8
Chick peas	21463	5309	24.74	10579	2719	25.7	1076	534	49.7	1144	505	44.2
Lentiles	35694	6172	17.29	33729	6813	20.2	921	347	37.7	994	340	34.2
Vetch/Grass peas	5618	1346	23.96	2532	1246	49.21	174	174	99.9	14	14	99.9
Soya beans	5196	1812	34.87	3995	1848	46.25	2236	930	41.6	1850	829	44.8
Fenugreek	11185	2835	25.35	10163	2321	22.84	2355	2296	97.5	2146	1516	70.6
Mung bean/'Masho'	5092	1340	26.32	4247	1512	35.59	969	863	89.1	1307	1161	88.9
Gibto	1973	915	46.37	4451	3355	75.37	-	-	-	-	-	-
Oile Seeds	103957	11004	10.58	191655	30534	15.93	14276	3974	27.8	11839	3436	29.0
Nueg	29043	7177	24.71	12830	3933	30.66	108	106	98.7	79	78	98.7
Linseed	10274	2530	24.63	7043	1930	27.41	2574	1885	73.2	2361	1459	61.8
Ground nuts	7478	1704	22.79	9475	3364	35.5	1245	546	43.9	3715	2647	71.3
Safflower	3873	830	21.42	17567	6593	37.53	392	311	79.5	370	254	68.7
Sesame	38799	7203	18.56	18615	4533	24.35	9883	3419	34.6	5146	1587	30.8
Rapeseed	14491	2346	16.19	126123	28152	22.32	75	53	70.6	169	133	78.8
Vegetables	159711	19845	12.43	402814	88387	21.94	6167	2645	42.9	12491	6017	48.2
Lettuce	100	63	62.67	32	27	84.79	-	-	-	-	-	-
Head Cabbage	4675	1009	21.59	10162	3124	30.74	305	248	81.6	751	518	69.0
Ethiopian Cabbage	24978	1492	5.97	17734	3562	20.08	509	235	46.2	2854	1550	54.3
Tomatoes	3337	932	27.93	15295	9619	62.89	116	62	53.3	344	153	44.4
Green peppers	6231	947	15.19	8089	1959	24.21	153	65	42.4	202	73	35.9
Red papers	119999	19674	16.39	351158	87554	24.93	5026	2615	52.0	8276	5787	69.9
Swiss chard	391	255	65.32	343	165	48.08	57	57	98.6	65	64	98.8
Root Crops	151195	12451	8.23	356270	60840	17.08	8103	2401	29.6	14571	4763	32.7
Beet root	2225	469	21.07	2379	903	37.94	309	227	73.4	458	368	80.4
Carrot	4377	2041	46.64	4686	2263	48.29	73	51	69.4	115	81	70.1
Onion	25602	7445	29.08	111721	43207	38.67	822	569	69.2	816	514	63.0
Potatoes	61538	8964	14.57	158347	37515	23.69	5462	2265	41.5	10784	4646	43.1
Yam	2328	315	13.54	1021	540	52.87	12	6	51.0	40	23	56.1
Garlic	15104	2840	18.8	42946	9135	21.27	161	110	68.3	438	185	42.2
Taro/'Godere'	20850	1732	8.31	7610	1891	24.84	199	75	37.9	341	131	38.3
Sweet potatoes	19172	1992	10.39	27560	18509	67.16	1064	333	31.3	1578	544	34.5
Other Temporary	41785	4877	11.67	138477	26152	18.89	1027	388	37.8	1795	448	25.0
Fruit Crops	33481	2273	6.79	35748	10688	29.9	550	137	25.0	2150	510	23.7
Avocado	7343	778	10.6	1700	630	37.05	56	48	85.5	124	81	65.5
Bananas	18950	1626	8.58	13850	1999	14.43	403	107	26.6	1535	436	28.4
Guava	801	271	33.8	1296	779	60.08	33	33	99.4	48	48	99.4
Lemons	359	67	18.78	97	57	58.22	17	17	99.4	48	48	99.4
Mangos	3382	448	13.25	15605	10385	66.55	12	7	56.8	217	126	58.0
Oranges	1391	278	19.98	1264	515	40.74	18	18	99.5	52	52	99.5
Papayas	1202	220	18.33	1929	975	50.55	10	8	82.7	125	99	79.0
Pineapples	53	26	48.1	6	6	100.15	-	-	-	-	-	-
Stimulant Crops	206135	11100	5.38	212488	23372	11	6554	1610	24.6	28944	6962	24.1
Chat	94595	8218	8.69	124996	17225	13.78	4588	1398	30.5	20945	5808	27.7
Coffee	93572	6511	6.96	41908	5704	13.61	1943	583	30.0	7867	2360	30.0
Hops/'Gesho'	17968	2232	12.42	45583	12862	28.22	24	20	85.8	132	87	65.8
Enset	135460	7998	5.9	11540	2541	22.02	330	101	30.7	2002	758	37.8
Sugar Cane	10958	2219	20.25	9085	3647	40.14	264	154	58.3	313	125	40.0
Other Permanent	5176	883	17.06	10316	3184	30.86	11	11	95.6	66	47	71.3

Crop	UREA						UREA + DAP					
	Area (ha)			Quantity (qt)			Area (ha)			Quantity (Qt)		
	Estimate	S.E	C.V	Estimate	S.E	C.V	Estimate	S.E	C.V	Estimate	S.E	C.V
All	371034	27054	7.29	427454	50845	11.89	700274	57071	8.15	1422405	137931	9.7
Cereals	317895	25374	7.98	346577	48516	14	638111	53727	8.42	1163364	109905	9.45
Teff	112668	12538	11.13	111361	34766	31.22	231076	27458	11.88	349768	48693	13.92
Barley	15277	2756	18.04	13224	3128	23.65	64382	10361	16.09	117924	26952	22.86
Wheat	31446	5082	16.16	27706	5737	20.71	152513	22349	14.65	284285	46257	16.27
Maize	57160	8738	15.29	87733	15500	17.67	115956	14005	12.08	308307	41695	13.52
Sorghum	52745	9869	18.71	56361	20003	35.49	40155	6252	15.57	64193	9632	15
Finger millet	28902	6343	21.95	17327	4236	24.45	31803	5419	17.04	34056	6453	18.95
Oats/'Aja'	76	45	59.05	101	53	52.52	57	40	70.39	270	184	68.2
Rice	19621	9962	50.77	32765	18019	54.99	2169	1062	48.97	4562	2075	45.49
Pulse	15436	2576	16.69	15164	2112	13.93	19059	2962	15.54	53568	7996	14.93
Horse/Faba beans	4097	812	19.83	5600	1244	22.21	6553	1846	28.17	15542	4589	29.53
Field peas	1864	667	35.79	1034	364	35.22	2372	808	34.06	4869	1378	28.3
White Haricot beans	495	201	40.61	1086	464	42.68	1238	670	54.11	5291	2281	43.11
Red Haricot beans	2256	875	38.8	3500	1004	28.68	6576	1423	21.64	23706	5012	21.14
Chick peas	1752	931	53.15	727	408	56.12	661	440	66.48	1298	595	45.86
Lentiles	3473	1719	49.5	1755	574	32.73	1228	683	55.6	1589	795	50.05
Vetch/Grass peas	939	673	71.71	380	277	72.96	208	179	85.98	379	271	71.49
Soya beans	180	161	89.33	108	100	92.45	65	63	96.72	62	56	90.07
Fenugreek	124	70	56.3	747	263	35.2	129	90	69.7	705	378	53.59
Mung bean/'Masho'	256	156	60.91	227	118	52.26	28	28	100.21	27	27	100.21
Gibto	-	-	-	-	-	-	-	-	-	101	100	99.9
Oilseeds	7179	2579	35.92	7585	1663	21.92	8838	3338	37.77	8565	2097	24.48
Nueg	161	84	52.45	362	186	51.55	134	123	91.84	1125	632	56.23
Linseed	378	223	58.93	421	206	49.05	129	63	48.55	863	364	42.17
Ground nuts	1105	652	58.98	1940	817	42.1	272	182	66.92	508	250	49.24
Safflower	256	120	46.82	810	495	61.06	88	61	68.71	629	471	74.8
Sesame	4911	2470	50.3	2756	1088	39.46	8196	3304	40.32	5023	1840	36.63
Rapeseed	370	244	66.08	1297	635	48.97	19	15	78.54	417	321	76.98
Vegetables	17201	5093	29.61	14413	2978	20.66	10935	3440	31.46	23620	8043	34.05
Lettuce	1	1	99.78	3	3	99.78	-	-	-	-	-	-
Head Cabbage	202	62	30.65	619	197	31.74	247	173	69.84	2515	1743	69.31
Ethiopian Cabbage	435	140	32.07	833	216	25.88	409	162	39.59	2056	698	33.95
Tomatoes	627	414	66.01	746	328	43.97	854	587	68.76	3163	2097	66.3
Green peppers	926	552	59.57	1715	607	35.41	181	93	51.37	1296	658	50.8
Red papers	15006	5058	33.7	10480	2865	27.34	9225	3021	32.75	14412	5254	36.45
Swiss chard	3	2	66.04	16	10	62.26	19	13	69.69	178	132	74.32
Root Crops	5232	900	17.2	11024	1826	16.56	11423	4012	35.13	72601	26830	36.96
Beet root	113	67	59.23	263	126	48.06	27	19	70.42	200	145	72.27
Carrot	183	123	67.38	168	89	53	40	40	99.43	72	66	90.64
Onion	807	251	31.11	1787	713	39.88	732	359	49.06	3214	2291	71.27
Potatoes	1205	449	37.23	2377	757	31.83	9809	3989	40.67	41661	18877	45.31
Yam	7	7	99.57	10	10	99.57	44	25	56.17	330	200	60.54
Garlic	976	242	24.76	2613	535	20.48	114	43	38.15	4531	3510	77.47
Taro/'Godere'	535	192	35.94	1563	667	42.64	279	136	48.87	2389	1171	49
Sweet potatoes	1405	622	44.26	2243	1152	51.38	378	132	35.04	20204	18480	91.47
Other Temporary	1591	506	31.83	8441	3774	44.71	902	289	32	25615	18500	72.22
Fruit Crops												
Avocado												
Bananas												
Guava												
Lemons												
Mangos												
Oranges												
Papayas												
Pineapples												
Stimulant Crops												
Chat												
Coffee												
Hops/'Gesho'												
Enset												
Sugar Cane												
Other Permanent												

APPENDIX II (cont'd)

Crop	NPS						NPS + UREA					
	Area (ha)			Quantity (qt)			Area (ha)			Quantity (Qt)		
	Estimate	S.E	C.V	Estimate	S.E	C.V	Estimate	S.E	C.V	Estimate	S.E	C.V
All	1813374	94806	5.23	1874519	101508	5.42	3549465	994248	3.57	8029703	325139	4.05
Cereals	1588799	87203	5.49	1565480	89567	5.72	3316752	913706	3.63	6924741	275981	3.99
Teff	672171	49154	7.31	605791	46054	7.6	1202876	72120	6	2086106	144817	6.94
Barley	210746	33731	16.01	208962	33648	16.1	189966	20371	10.72	264686	27401	10.35
Wheat	353456	45849	12.97	382440	47892	12.52	806513	58989	7.31	1561593	123239	7.89
Maize	171704	18744	10.92	202127	20946	10.36	964144	53764	5.58	2735639	156825	5.73
Sorghum	41250	7904	19.16	37329	7332	19.64	64065	14098	22.01	120096	27487	22.89
Finger millet	129127	16333	12.65	114198	16307	14.28	75648	12896	17.05	106606	18749	17.59
Oats/'Aja'	10344	3798	36.71	14631	5756	39.34	1181	434	36.76	3215	1375	42.78
Rice	-	-	-	-	-	-	12359	6605	53.44	46800	25251	53.95
Pulse	153065	14326	9.36	182282	18409	10.1	80413	8940	11.12	208686	25255	12.1
Horse/Faba beans	74751	9581	12.82	82555	10508	12.73	21868	3078	14.07	63165	14172	22.44
Field peas	29898	4626	15.47	42190	6417	15.21	13373	2353	17.6	32521	5442	16.73
White Haricot												
beans	4022	2287	56.85	11213	6941	61.9	5924	4900	82.72	18171	13245	72.89
Red Haricot beans	16509	3585	21.72	25915	5755	22.21	14103	3605	25.56	61099	9638	15.77
Chick peas	7549	4264	56.49	3011	1596	52.99	4661	1633	35.03	4399	1585	36.02
Lentiles	13221	3304	24.99	11241	3086	27.46	13593	3361	24.72	18150	5509	30.35
Vetch/Grass peas	919	572	62.24	172	120	69.82	432	255	59.04	1587	1123	70.75
Soya beans	1585	1320	83.26	1670	1602	95.97	217	202	93.31	305	278	91.19
Fenugreek	2610	877	33.58	2351	896	38.11	3957	1114	28.16	4214	1004	23.83
Mung												
bean/'Masho"	1540	757	49.17	1863	911	48.89	951	488	51.32	825	368	44.68
Gibto	461	260	56.44	100	52	52.04	1334	864	64.79	4250	3352	78.86
Oil Seeds	26307	6737	25.61	17994	2778	15.44	14099	2655	18.83	145671	29589	20.31
Nueg	17893	6452	36.06	3538	934	26.4	3003	1279	42.59	7727	3594	46.52
Linseed	3343	1215	36.36	2310	808	34.99	673	310	46.09	1088	458	42.12
Ground nuts	295	195	66.13	1190	515	43.26	672	447	66.55	2123	1317	62.01
Safflower	313	131	41.88	1445	546	37.77	1393	500	35.87	14313	6396	44.68
Sesame	2231	1306	58.53	1691	847	50.08	1356	829	61.14	3999	2761	69.03
Rapeseed	2233	1026	45.96	7820	2122	27.13	7002	1640	23.43	116420	28009	24.06
Vegetables	12713	4169	32.8	22438	4965	22.13	71760	15979	22.27	329853	87011	26.38
Lettuce	-	-	-	-	-	-	5	5	90.17	29	27	92.79
Head Cabbage	720	319	44.25	1201	562	46.74	809	408	50.4	5076	2381	46.9
Ethiopian Cabbage	635	159	25.01	2626	851	32.41	1079	254	23.49	9365	3016	32.21
Tomatoes	167	115	68.81	154	72	47.05	955	548	57.39	10888	9378	86.13
Green peppers	470	256	54.59	1095	362	33.08	816	276	33.89	3781	1544	40.85
Red papers	10721	4143	38.64	17356	4848	27.93	68091	15932	23.4	300634	86416	28.74
Swiss chard	1	1	99.33	5	5	99.33	4	3	61.92	79	38	48.4
Root Crops	23521	3980	16.92	51251	9706	18.94	45407	9428	20.76	206823	52522	25.39
Beet root	527	307	58.16	914	739	80.83	71	37	51.57	544	274	50.33
Carrot	1260	643	51.03	1583	815	51.51	868	467	53.81	2748	1905	69.31
Onion	3234	1683	52.03	10495	5573	53.11	17224	7037	40.85	95409	42578	44.63
Potatoes	13650	3154	23.1	26135	6713	25.69	20573	5902	28.69	77389	29734	38.42
Yam	24	13	56.42	12	7	52.95	68	42	61.08	628	500	79.56
Garlic	4038	1178	29.17	10288	3324	32.31	4533	1776	39.17	25077	6745	26.9
Taro/'Godere'	379	198	52.14	844	305	36.19	263	76	28.93	2472	601	24.3
Sweet potatoes	408	178	43.63	980	500	51	1807	805	44.53	2555	788	30.84
Other Temporary	3747	1202	32.09	10740	2240	20.85	9926	3948	39.77	91885	17706	19.27
Fruit Crops												
Avocado												
Bananas												
Guava												
Lemons												
Mangos												
Oranges												
Papayas												
Pineapples												
Stimulant Crops							7835	1286	16.41	83970	14680	17.48
Chat												
Coffee												
Hops/'Geshe'												
Enset												
Sugar Cane												
Other Permanent												

APPENDIX II (cont'd)

Crop	Indigenous Seed						Improved Seed					
	Area (ha)			Quantity (qt)			Area (ha)			Quantity (Qt)		
	Estimate	S.E	C.V	Estimate	S.E	C.V	Estimate	S.E	C.V	Estimate	S.E	C.V
All	13159989	229722	1.75	9047656	264050	2.92	1422206	64972	4.57	592765	37573	6.34
Cereals	8869576	176511	1.99	7126358	227763	3.2	1363006	64255	4.71	578896	37142	6.42
Teff	2967219	106152	3.58	1453118	56911	3.92	56064	6821	12.17	19854	2432	12.25
Barley	933479	57899	6.2	1500825	110078	7.33	18515	5979	32.29	45103	19537	43.32
Wheat	1585519	85166	5.37	2833886	170927	6.03	111388	14368	12.9	195955	25549	13.04
Maize	959132	40399	4.21	511957	27418	5.36	1169817	60692	5.19	315689	15972	5.06
Sorghum	1890584	88730	4.69	465093	20227	4.35	5805	1568	27.01	1319	353	26.76
Finger millet	454998	31844	7	190744	14199	7.44	1059	593	56.03	646	424	65.7
Oats/'Aja'	25768	5916	22.96	61303	15811	25.79	128	127	99.25	47	35	73.24
Rice	52877	17900	33.85	109432	44571	40.73	230	227	98.66	283	280	98.66
Pulse	1586537	59757	3.77	1685902	77094	4.57	12270	3170	25.84	13121	3657	27.87
Horse/Faba beans	435386	21655	4.97	622831	37026	5.94	1720	868	50.43	3036	1606	52.9
Field peas	220093	14213	6.46	271577	19102	7.03	415	216	52.15	646	566	87.57
White Haricot beans	89298	12722	14.25	83076	21465	25.84	85	60	70.93	92	72	77.6
Red Haricot beans	210740	20457	9.71	169911	19546	11.5	6064	2417	39.86	4546	2019	44.42
Chick peas	239151	28419	11.88	207011	30965	14.96	3552	1825	51.37	4542	2486	54.74
Lentiles	119046	14912	12.53	116067	14419	12.42	-	-	-	-	-	-
Vetch/Grass peas	143086	17113	11.96	96063	12213	12.71	-	-	-	-	-	-
Soya beans	37713	9096	24.12	67189	31201	46.44	360	356	98.84	246	243	98.84
Fenugreek	32570	9338	28.67	19338	5515	28.52	17	17	100.31	9	9	100.31
Mung bean/'Masho'	41632	7230	17.37	28688	4857	16.93	2	2	100.21	1	1	100.21
Gibto	17822	6132	34.41	4150	1376	33.15	55	55	99.99	2	2	99.99
Oilseeds	842595	69914	8.3	235396	22728	9.66	3899	1434	36.77	749	434	57.97
Nueg	290495	30457	10.48	47798	4501	9.42	-	-	-	17	17	99.61
Linseed	78532	11103	14.14	39746	6818	17.15	513	429	83.56	420	418	99.62
Ground nuts	80815	13771	17.04	97039	18765	19.34	27	27	100.31	8	8	100.31
Safflower	7941	1646	20.72	1276	213	16.69	26	18	70.95	10	9	82.32
Sesame	366855	59386	16.19	41826	8577	20.51	3286	1367	41.61	293	114	38.91
Rapeseed	17957	2561	14.26	7712	3406	44.16	48	48	99.92	-	-	-
Vegetables	205891	24684	11.99	-	-	-	3095	966	31.2	-	-	-
Lettuce	144	66	45.61	-	-	-	1	1	92.73	-	-	-
Head Cabbage	4988	942	18.88	-	-	-	1019	468	45.91	-	-	-
Ethiopian Cabbage	34099	1811	5.31	-	-	-	29	17	58.49	-	-	-
Tomatoes	3670	670	18.24	-	-	-	1565	693	44.25	-	-	-
Green peppers	10192	1479	14.51	-	-	-	16	6	40.01	-	-	-
Red papers	152293	24478	16.07	-	-	-	460	318	69.14	-	-	-
Swiss chard	504	264	52.46	-	-	-	7	3	39.75	-	-	-
Root Crops	225971	13625	6.03	-	-	-	7319	2139	29.22	-	-	-
Beet root	2228	413	18.55	-	-	-	662	312	47.15	-	-	-
Carrot	2984	1017	34.07	-	-	-	1919	1226	63.91	-	-	-
Onion	29036	7607	26.2	-	-	-	2637	1078	40.9	-	-	-
Potatoes	68272	9079	13.3	-	-	-	1339	1140	85.11	-	-	-
Yam	5355	856	15.99	-	-	-	1	1	100.55	-	-	-
Garlic	18712	3135	16.75	-	-	-	700	611	87.35	-	-	-
Taro/'Godere'	45969	3268	7.11	-	-	-	26	14	52.13	-	-	-
Sweet potatoes	53415	4582	8.58	-	-	-	35	23	65.84	-	-	-
Other Temporary	91298	9718	10.64	-	-	-	3717	2623	70.56	-	-	-
Fruit Crops	102716	7180	6.99	-	-	-	-	-	-	-	-	-
Avocado	17852	1214	6.8	-	-	-	-	-	-	-	-	-
Bananas	59147	5865	9.92	-	-	-	-	-	-	-	-	-
Guava	1882	361	19.16	-	-	-	-	-	-	-	-	-
Lemons	1392	275	19.73	-	-	-	-	-	-	-	-	-
Mangos	14972	2475	16.53	-	-	-	-	-	-	-	-	-
Oranges	3634	564	15.51	-	-	-	-	-	-	-	-	-
Papayas	3227	311	9.62	-	-	-	-	-	-	-	-	-
Pineapples	610	221	36.17	-	-	-	-	-	-	-	-	-
Stimulant Crops	993184	57177	5.76	-	-	-	26045	5798	22.26	-	-	-
Chat	261940	22193	8.47	-	-	-	-	-	-	-	-	-
Coffee	700295	51024	7.29	-	-	-	25667	5796	22.58	-	-	-
Hops/'Geshe'	30950	2768	8.94	-	-	-	-	-	-	-	-	-
Enset	196375	9962	5.07	-	-	-	-	-	-	-	-	-
Sugar Cane	29536	3450	11.68	-	-	-	-	-	-	-	-	-
Other Permanent	16311	2017	12.36	-	-	-	-	-	-	-	-	-

APPENDIX II (cont'd)

Crop	PESTICIDE			IRRIGATION			EXTENSION PACKAGE		
	Area (ha)			Area (ha)			Area (ha)		
	Estimate	S.E	C.V	Estimate	S.E	C.V	Estimate	S.E	C.V
All	3859743	144803	3.75	181281	27767	15.32	4504025	147508	3.28
Cereals	3503550	132996	3.8	69100	14524	21.02	4028094	136275	3.38
Teff	1482632	80665	5.44	10400	2828	27.19	1082650	68378	6.32
Barley	277355	34132	12.31	1375	518	37.65	244745	29912	12.22
Wheat	948310	71456	7.54	4952	1229	24.81	867788	71137	8.2
Maize	270275	27859	10.31	25281	4326	17.11	1317374	60685	4.61
Sorghum	345945	36838	10.65	24914	11304	45.37	306101	28854	9.43
Finger millet	157223	18295	11.64	673	324	48.21	180822	21523	11.9
Oats/'Aja'	14835	4712	31.76	6	6	99.89	12478	4427	35.47
Rice	6975	3122	44.77	1500	1493	99.56	16135	7049	43.69
Pulse	204210	26411	12.93	4232	1108	26.18	235803	20106	8.53
Horse/Faba beans	55616	9997	17.97	569	361	63.44	90006	10810	12.01
Field peas	15889	3658	23.02	501	315	62.79	30194	4234	14.02
White Haricot beans	1796	774	43.06	123	93	75.23	5745	1542	26.85
Red Haricot beans	14470	4845	33.49	1702	841	49.4	52009	8740	16.8
Chick peas	43213	15166	35.1	247	211	85.56	15096	5505	36.47
Lentiles	37146	10408	28.02	226	162	71.59	14185	3746	26.41
Vetch/Grass peas	5710	2767	48.46	402	379	94.14	2306	1522	66.03
Soya beans	9044	6140	67.89	133	131	98.66	4127	1744	42.26
Fenugreek	2170	921	42.42	124	72	57.78	10556	5691	53.92
Mung bean/'Masho'	19153	5550	28.98	54	37	68.67	8988	3085	34.33
Gibto	2	2	99.92	150	148	98.78	2591	1826	70.47
Oilseeds	36422	8325	22.86	699	191	27.33	56898	7215	12.68
Nueg	1561	1235	79.15	52	52	99.79	3534	1543	43.67
Linseed	8671	3239	37.36	183	104	56.77	4130	1816	43.97
Ground nuts	6714	2667	39.72	271	107	39.61	9998	2605	26.06
Safflower	319	167	52.39	79	79	99.95	2105	596	28.29
Sesame	17804	6558	36.84	89	61	68.45	30263	5845	19.31
Rapeseed	1352	977	72.25	25	19	76.62	6868	1605	23.37
Vegetables	13759	3711	26.97	6357	1143	17.97	66430	16688	25.12
Lettuce	1	1	100.17	17	11	68.16	7	5	69.72
Head Cabbage	1794	746	41.56	598	337	56.39	1013	305	30.1
Ethiopian Cabbage	577	161	27.89	574	238	41.39	1829	325	17.76
Tomatoes	1695	760	44.83	2559	778	30.4	2674	845	31.58
Green peppers	171	90	52.54	1108	277	25.01	1121	348	31.02
Red papers	9449	3324	35.17	1497	514	34.38	59697	16626	27.85
Swiss chard	73	66	90.9	5	2	41.25	88	69	78.19
Root Crops	60095	11206	18.65	21227	7279	34.29	58561	10187	17.4
Beet root	566	331	58.44	187	120	64.41	878	354	40.34
Carrot	2585	1621	62.7	139	70	50.11	1508	956	63.42
Onion	20425	7517	36.8	16208	7045	43.47	14542	6618	45.51
Potatoes	30044	7972	26.53	1882	908	48.26	27980	7160	25.59
Yam	-	-	-	-	-	-	157	58	36.69
Garlic	6297	2145	34.06	1669	680	40.76	6515	2248	34.51
Taro/'Godere'	128	65	50.88	5	4	73.47	1641	361	21.98
Sweet potatoes	50	43	85.39	1138	947	83.21	5339	1419	26.58
Other Temporary	12044	6782	56.31	6473	3826	59.1	12781	3989	31.21
Fruit Crops	596	293	49.09	14376	5364	37.31	4687	637	13.6
Avocado	12	6	49.32	334	120	35.93	245	73	29.54
Bananas	61	31	49.61	9180	5128	55.87	2440	403	16.52
Guava	268	250	93.36	701	319	45.54	479	264	54.98
Lemons	22	14	65.62	663	251	37.91	83	33	40.02
Mangos	181	144	79.18	1438	400	27.78	841	245	29.07
Oranges	15	7	49.34	1296	442	34.1	157	65	41.28
Papayas	37	32	84.17	763	244	31.94	435	200	45.91
Pineapples	-	-	-	-	-	-	5	4	82.64
Stimulant Crops	27552	5468	19.85	49452	7214	14.59	36357	5538	15.23
Chat	18453	3973	21.53	34102	6123	17.95	9398	1864	19.84
Coffee	7850	3693	47.05	10789	2963	27.46	22562	5054	22.4
Hops/'Geshe'	1249	418	33.46	4561	625	13.71	4397	901	20.49
Enset	769	334	43.52	893	353	39.58	-	-	-
Sugar Cane	718	635	88.39	7319	2133	29.15	2233	1390	62.23
Other permanent	29	15	53.86	1152	255	22.13	809	171	21.08

APPENDIX III:
NUMBER OF EAs SAMPLED AND COVERED
NUMBER OF HOUSEHOLDS SAMPLED AND COVERED
NUMBER OF PARCELS AND FIELDS MEASURED

Appendix III(a):Number of Planned and Actually Covered Sampling Units (EAs & Households) Of the 2017/18 (2010 E.C) AgSS

<i>Region</i>	<i>Enumeration Areas</i>		<i>Households</i>	
	<i>Planned</i>	<i>Covered</i>	<i>Planned</i>	<i>Covered</i>
<i>Tigray</i>	<i>131</i>	<i>131</i>	<i>1965</i>	<i>1965</i>
<i>Afar</i>	<i>35</i>	<i>35</i>	<i>525</i>	<i>525</i>
<i>Amhara</i>	<i>317</i>	<i>304</i>	<i>4755</i>	<i>4553</i>
<i>Oromia</i>	<i>499</i>	<i>498</i>	<i>7485</i>	<i>7431</i>
<i>Somali</i>	<i>21</i>	<i>41</i>	<i>315</i>	<i>615</i>
<i>Banshangule- Gumuz</i>	<i>54</i>	<i>67</i>	<i>810</i>	<i>1004</i>
<i>S.N.N.P</i>	<i>437</i>	<i>416</i>	<i>6555</i>	<i>6224</i>
<i>Gambella</i>	<i>39</i>	<i>57</i>	<i>585</i>	<i>436</i>
<i>Harari</i>	<i>36</i>	<i>17</i>	<i>540</i>	<i>255</i>
<i>Dire Dawa</i>	<i>31</i>	<i>17</i>	<i>465</i>	<i>255</i>
<i>Country Total</i>	<i>1600</i>	<i>1583</i>	<i>24000</i>	<i>23263</i>

**APPENDIX IV:
SURVEY QUESTIONNAIRE**

CENTRAL STATISTICAL AUTHORITY
ETHIOPIAN AGRICULTURAL SAMPLE SURVEY 2017/18 (2010 EC)

PART I – IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Region	Zone	Wereda	PA / REST.AR	EA LOCAL	HH ID	HH HEAD SEX 1=M 2=F	HOLDER ID	HOLDER'S NAME	AGE	SEX M=1 F=2	HIGHEST GRADE COMPLETED	HOLDER'S HH SIZE	FARMING TYPE CROP=1 LIVEST=2 BOTH=3

PART II – CROP FIELD / OTHER LAND USE

15	16	17			
SER. NO.	QUESTIONS FOR THE HOLDER	PARCEL NO.	FIELD NO.		
		IS THE FIELD PURE STAND =1 MIXED CROP =2 OTHER LAND USE=3			
		CROP/OTHER NAME	CROP NAME	CROP NAME	
		CODE	CODE	CODE	
		CODE	CODE	CODE	
0 1	Ownership Own = 1 Rented in =2 Other =3				
0 2	Is field under Extension Program? Yes =1 No = 2				
0 3	Is Field Irrigated? Yes =1 No =2				
0 4	If Field Irrigated source of water River =1 Lake =2 Pond =3 Harvested water =4 other =5				
0 5	Is Field Prevented form Erosion Yes = 1 No =2				
0 6	If yes in #5, common way of prevention Terracing = 1 Other =5 Water catchments =2 Afforestation = 3 Plough along the cont. = 4				
0 7	Percent share of mixed crops				
0 8	Number of Fruit Trees (excluding chat, pineapple, sugarcane)				
0 9	Number of Fruit Bearing Trees (excluding chat, pineapple, sugarcane)				
1 0	Percentage share of Fruit Bearing Trees (excluding chat, pineapple, sugarcane)				
1 1	Seed / Seedling Type Improved Seed = 1 indigenous seed = 2				
1 2	For Cereals, Pulses & Oilseeds only Quantity of improved seeds used	Kilo	Gram	Kilo	Gram
1 3	For Cereals, Pulses & Oilseeds only Price of improved seeds used	Birr	Cents	Birr	Cents
1 4	For Cereals, Pulses & Oilseeds only Quantity of indigenous seeds used	Kilo	Gram	Kilo	Gram
1 5	Was crop damaged ? Yes = 1 No =2				
1 6	If yes in question number 14, Cause of damage Code				
1 7	Percent of damaged crop				
1 8	Prevention/precaution measure taken? Yes =1 No =2				
1 9	Type of measure if any? Chemical = 1 Non – chemical = 2 Both = 3 Chemical type used if any Pesticide =1 herbicide =2 Fungicide =3 1&2 = 4 1 & 3 = 5 2 & 3 = 6 All = 7				
2 0	Is Fertilizer Used? Yes =1 No = 2				
2 2	Type of fertilizer used if any? Natural = 1 Chemical = 2 Both = 3 If chemical fertilizer used 23.1 Type UREA = 1 DAP = 2 Both = 3 NPS=4				
2 3	23.2 Quantity of chemical fertilizer used	Kilo	Gram		
2 4	If natural fertilizer used, type Manure = 1 Compost = 2 Organic = 3 1 & 2 = 4 1 & 3 = 5 2 & 3 = 6 All = 7 others = 8				
2 5	How often is temporary crop field used in Meher (main) season? If twice in #24 which crop is the 2 nd harvest?	Crop name	code	Crop name	code
2 6					
2 7	What was the previous state of the field ? Fallow =1 crop field =2 Virgin =3 Rented in cropfield =4 other =5				

PART 3A: RESULTS OF AREA MEASUREMENTS Using GPS

18	19	20	21	22	23	24	25
GPS Accuracy during field measurement	Is the field measured? yes = 1 No = 2						
	Area of measured field		Is the field Flat = 1 Partially Sloppy = 2 Sloppy = 3	Code	If the field covered? None , 1 With plant / permanent crop = 2 With house = 3 Partially covered , 4 Others , 5	Code	Comments
	Area in square meters (Clockwise)	Area in square meters (Anti-Clockwise)					
Field measurement			Date		Month		

PART 3B – RESULTS OF AREA MEASUREMENTS USING COMPASS-ROPE

18	19	20	21	22	23	24	25	26
Is the field measured? Yes = 1 No = 2 Code								
Side	1 - 2	2 - 3	3 -	4 -	5 -	6 -	7 -	8 -
Bearing (0)								
Length								
Side	9 -	10 -	11 -	12 -	13 -	14 -	15 -	16 -
Bearing(0)								
Length								
Side	17 -	18 -	19 -	20 -	21 -	22 -	23 -	24 -
Bearing (0)								
Length								
Side	25 -	26 -	27 -	28 -	29 -	30 -	31 -	32 -
Bearing (0)								
Length								
Field Measurement	date	month	Closure error			Area in square meters		
For fields selected	Selected corner number		Shortest side length		Random number			
For crop cutting	Shortest side Bearing		Longest side length		Random number			

	Name	Signature	Date
Data collector			
Field Supervisor			

CENTRAL STATISTICAL AUTHORITY
ETHIOPIAN AGRICULTURAL SAMPLE SURVEY 2017/18 (2010 E.C)

PART I – IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Region	Zone	Wereda	PA / REST.AR	EA LOCAL	HH ID	HH HEAD SEX 1=M 2=F	HOLDER ID	HOLDER'S NAME	AGE	SEX M=1 F=2	HIGHEST GRADE COMPLETED	HOLDER'S HH SIZE	FARMING TYPE CROP=1 LIVEST=2 BOTH=3

PART II – MISCELLANEOUS QUESTIONS FOR THE HOLDER

15	16	17
SER.NO.	QUESTIONS	CODE
1	Do you exercise crop rotation on your land holing? Yes = 1 No = 2	
2	Reason for not using chemical fertilizers on any one of your crop fields Ignorance = 1 High price = 2 Lack of Money = 3 Non – availability of supply = 4 lack of credit service =5 Skeptical of the outcome = 6 Others (specify) = 7	
3	Reason for not participating in Extension Program 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	
4	Do you get credit services? Yes = 1 No = 2	
5	If no in # 4 Why? 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 = 6	
6	Do you get advisory services? Yes = 1 No = 2	
7	If no in # 6 Why? Non availability of the service = 1 Inadequate services provided = 2 Inadequate services provided = 2 Ignorance = 3 Does not yield any results = 4 Others = 5	
8	Your major supplier of fertilizer is Government organizations = 1 Private organizations = 2 Merchants = 3 Others (Specify) = 4 Never used fertilizer = 5	
9	Total Chemical fertilizers (Urea+Dap) purchased for main season in 2010 E.c (it includes gifts, loans, supports)	Killo gram
9.1	Total Dap fertilizers purchased for main season in 2010 E.c (it includes gifts, loans, supports)	
9.2	Total Urea fertilizers purchased for main season in 2010 E.c (it includes gifts, loans, supports)	
10	How many oxen do you have in this Meher season?	
11	If you have one or no ox how do you plough? By renting ox = 1 By pairing mine with someone's ox = 2 By pairing mine with cow/ horse =3 Using horses or cows = 4 Hand digging = 5 Using borrowed oxen = 6 others = 7	
12	Total number of fields recorded for the holder	
13	Total number of crop fields recorded for the holder	
14	Has the holder ploughed additional fields over that of the previous year? Yes =1 No = 2	
15	If yes in question # 13, what was the previous state of the additional fields? Holder's virgin land = 1 Public/ Community virgin land = 2 Borrowed fallow land = 3 Other = 4	