Ethiopia

Central Statistical Agency, Ministry of Finance and Economic Development

Agricultural Sample Survey 2004-2005 (1997 E.C)

Study Documentation

December 28, 2010

Metadata Production

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Ethiopia (2004-2005)
Agricultural Sample Survey 2004-2005 (1997 E.C) (AgSS 2004-2005)

Overview

Type	Agricultural Survey [ag/oth]
Identification	ETH-CSA--AgSS-2004-v1.1
Version	Version 1.1: Edited and non anonymized dataset, for internal use only.

Abstract

Agriculture is core to the sustenance of food security, supply of raw materials and manufacturing industries especially agro-industries and it is a major source of export items in the country. This indicates that agriculture plays a vital role in the Ethiopian situation where millions of people are frequently haunted by drought and famine. The provision of adequate food to the needy people in Ethiopia exclusively depends on development of agriculture. Efforts are being intensified to bring about a perceptible change in the development of the agricultural sector to ensure a steady and adequate supply of food to those who need it. To bridge the gap between the demand for food and food supply, and to guarantee the availability of food and attain the desired change in the lives of the farming population, the government has embarked upon a transformation of the existing agricultural practices in the country. The progress anticipated from this task has to be appraised, monitored and evaluated with agricultural development statistical information as an input to find out whether the desired changes have materialized. To this end, the Central Statistical Authority (CSA) has been generating statistical information on the country's agriculture for the past twenty-four years. As part of this undertaking the 2004/05 (1997 E.C) Agricultural Sample Survey was conducted to furnish data on crop area and production of crops within the private peasant holdings for “Meher” Season of the cited year.

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, monitoring and evaluation of mainly food security and other agricultural activities. The AgSS is composed of four components: Crop Production Forecast Survey, Meher Season Survey, Livestock Survey and Belg Season Survey.

The specific objectives of Main (“Meher”) Season Survey are:
-To estimate the total cultivated area, production and yield of crops and provide estimates of land use area and quantity of agricultural inputs for Main (“Meher”) Season.
-To estimate the total volume of inputs used, inputs applied area and number of holders using inputs.
-To estimate the total cultivated area and other forms of land use.

Kind of Data	Sample survey data [ssd]
Unit of Analysis	Agricultural household/ Holder/ Crop

Scope & Coverage

Scope

The scope of annual Agricultural Sample Survey includes:
- Area identification and characteristics of agricultural holder's. This included household's geographic locations, holder's age, holder's sex and educational status.
- List of fields and agricultural practices for pure stand and mixed crops.
- List of permanent crops and number of tress.
- Records of quantity of improved seed, fertilizers and information on crop protection.
- Records of results of area measurements.
- List and selection of fields for crop cutting and details of record of crop cutting.

Keywords	Enumeration Area(EA), Household, Agriculture:, Agricultural Household, Holding, Holder, Parcel, Field, Crop, Crop production, Temporary/Annual Crops, Permanent (Perennial) Crops, Meher (Main) Season Crop, Belg Season Crop

Geographic Coverage

The 2004-2005 annual Agricultural Sample Survey covered the entire rural parts of the country except all zones of Gambella region, and the non-sedentary population of three zones of Afar and six zones of Somali regions.

Universe

Agricultural households

Producers & Sponsors

Primary Investigator(s)	Central Statistical Agency, Ministry of Finance and Economic Development
Funding Agency/ies	Government of Ethiopia (GoE)

Sampling

Sampling Procedure

Sampling Frame:

The list containing EAs of all regions and their respective agricultural households obtained from the 2001/02 Ethiopian Agricultural Sample Enumeration (EASE) 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. Sample Design A stratified two-stage cluster sample design was used to select the sample. Enumeration Areas (EAs) were taken to be the primary sampling units (PSUs) and the secondary sampling units (SSUs) were agricultural households. Sample enumeration areas from each stratum were sub-samples of the 2001/02 (1994 E.C) Ethiopian Agricultural Sample Enumeration. They were selected using probability proportional to size systematic sampling; size being number of agricultural households obtained from the 1994 Population & Housing Census and adjusted for the sub-sampling effect. Within each sample EA a fresh list of households was prepared and 25 agricultural households from each sample EA were systematically selected at the second stage. The survey questionnaire was finally administered to the 25 agricultural households selected at the second stage. Information on area under crops and Meher season production of crops was obtained from the 25 households that were ultimately selected. It is important to note, however, that data on crop cutting were obtained only from fifteen sampled households.

The sample size for the 2004-2005 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 capability was also considered. Except Harari, Addis Ababa and Dire Dawa, where each region as a whole was taken to be the domain of estimation; each zone of a region / special wereda was adopted as a stratum for which major findings of the survey are reported. Distribution of sampling units (planned and covered EAs) by stratum is presented in Appendix III of 2004-2005 Agricultural Sample Survey, volume I report which is provided as external resource.

Response Rate

Initially, a total of 2,016 Enumeration Areas (EAs) were selected to be covered by the survey, however, due to various reasons that are beyond the control of the CSA two EAs were not covered and 2,014 EAs (99.90 %) were actually covered. As regards the ultimate sampling unit, it was planned to conduct the survey on 50,400 agricultural households but 50,287 (99.78 %) households were in fact covered by the Meher season agricultural sample survey.

Weighting

The sampling procedure consists of two stages: hence the weighting formula takes into account both stages, i.e selection of the primary sampling unit (EAs) and the secondary sampling unit (Households). For more detailed mathmatical description of the estimation procedure, please refer the document containing the final report.

Data Collection

Data Collection Dates	start 2004-09 end 2005-02
Data Collection Mode	Face-to-face [f2f]

Data Collection Notes

Organization of field work:
To successfully conduct the survey a well executed fieldwork arrangement was necessary. In recognition of this, the organization of fieldwork has been entrusted to the Department of Field Operations that liaises between the Head Office and the 25 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 in administering the financial and logistic aspects of the survey within their areas of operation. A total of 2176 enumerators, 414 field supervisors, 24 coordinators and 91 statisticians were involved in the data collection where on the average one supervisor was assigned to five 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 205 four-wheel drive vehicles were used.

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 is 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 the Head Quarters of CSA and lasted 10 days targeted staff from the Head Office, 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 fifteen days in all the twenty- five 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, method of crop cutting, 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 and interviewing methods.

Method of data collection:
The agricultural data for the year 2004/05 (1997 E.C) was collected from sedentary rural peasant households by interviewing the selected agricultural holders and physically measuring their fields and performing crop cutting procedures to gather 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 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 25 selected households from each sampled E.A. using measuring tapes and compasses. All fields under major temporary crops of each holder of the fifteen randomly selected households of the 25 sample households were classified by crop type and a crop field was randomly selected from each crop type for crop cutting to be performed. The crop cutting procedure consists of demarcation of a four meter by four meter plot randomly located in the selected field where the crop in the demarcated plot is to be harvested. Following the enumerator's harvest of the crop demarcated and threshing, the crop is kept in bags with identification information (i.e. holder's number, parcel and field numbers). The crop stored in the bag is weighed immediately (green weight) after threshing and weighed again after two weeks of drying to simulate normal holder harvesting and drying practices. Both the green and dry weights are recorded on the respective forms.

Questionnaires

The 2004-2005 annual Agricultural Sample Survey used structured questionnaires to collect agricultural information from selected sample agricultural households.
List of forms in the questionnaires:
- AgSS Form 97/0: Used to list all households and agricultural holders in the sample enumeration areas.
- AgSS Form 97/1: Used to list selected households and agricultural holders in the sample enumeration areas.
- AgSS Form 97/3A: Used to list fields under temporary crops, collect information about farm management practices and area measurement.
- AgSS Form 97/3B: Used to list fields under permanent crops, collect information about farm management practices and area measurement.
- AgSS Form 97/3C: Used to list fields under mixed crops, collect information about farm management practices and area measurement.
- AgSS Form 97/3D: Used to list non-crop field and area measurement.
- AgSS Form 97/4: Used to list temporary crop fields for selection of crop cutting plots.
- AgSS Form 97/5: Used to collect information about temporary crop cutting results.

Note: The questionnaires are presented in the Appendix III of the 2004-2005 Agricultural Sample Survey report, Volume I which is provided as external resource.

Data Collector(s)	Central Statistical Agency of Ethiopia (CSA) , Ministry of Finance and Economic Development

Data Processing & Appraisal

Data Editing

Editing, Coding and Verification:
Statistical data editing plays an important role in ensuring the quality of the collected survey data. It minimizes the effects of errors introduced while collecting data in the field, hence the need for data editing, coding and verification. Although coding and editing are done by the enumerators and supervisors in the field, respectively, verification of this task is done at the Head Office. An editing, coding and verification instruction manual was prepared and reproduced for this purpose. Then 44 editors-coders and verifiers were trained for two days in editing, coding and verification using the aforementioned manual as a reference and teaching aid. The completed questionnaires were edited, coded and later verified on a 100 % basis before the questionnaires were passed over to the data entry unit. The editing, coding and verification exercise of all questionnaires took 40 days.

Data Entry, Cleaning and Tabulation:
Before data entry, the Natural Resources and Agricultural Statistics Department prepared edit specification for the survey for use on personal computers for data consistency checking purposes. The data on the edited and coded questionnaires were then entered into personal computers. The data were then checked and cleaned using the edit specifications prepared earlier for this purpose. The data entry operation involved about 110 data encoders and it took 30 days to finish the job. Finally, summarization of the data was done on personal computers to produce statistical tables as per the tabulation plan.

Estimates of Sampling Error

Estimation procedure of totals, ratios, sampling error and the measurement of precision of estimates (CV) are given in Appendix I and II of 2004-2005 Agricultural Sample Survey, Volume I report which is provided as external resource.

Accessibility

Access Authority	Central Statistical Agency of Ethiopia (Ministry of Finance and Economic Development) , http://www.csa.gov.et , csa@csa.gov.et
Contact(s)	Data Administrator (Central Statistical Agency of Ethiopia) , http://www.csa.gov.et , data@csa.gov.et

Access Conditions

The Central Statistical Agency (CSA) is committed to achieving excellence in the provision of timely, reliable and affordable official statistics for informed decision making in order to maximize the welfare of all Ethiopians. This is achieved through the collection and analysis of censuses, surveys and the use of administrative data as well as the dissemination a range of statistical products and providing assistance and services to users.

A microdata dissemination policy is established by CSA to address the conditions and the manner in which anonymized microdata files may be released to users for research purposes. It also strives to identify the different levels of anonymization for different categories of data use. This policy is available at CSA website (http://www.csa.gov.et).

CSA will release microdata files for use by researchers for scientific research purposes when:
The Director General is satisfied that all reasonable steps have been taken to prevent the identification of individual respondents.

The release of the data will substantially enhance the analytic value of the data that have been collected For all but purely public files, researchers disclose the nature and objectives of their intended research, It can be demonstrated that there are no credible alternative sources for these data, and

The researchers have signed an appropriate undertaking.

Terms and conditions of use of public data files are the following:

The data and other materials provided by CSA will not be redistributed or sold to other individuals, institutions, or organizations without the written agreement of CSA.

The data will be used for statistical and scientific research purposes only. They will be used solely for reporting of aggregated information, and not for investigation of specific individuals or organizations.

No attempt will be made to re-identify respondents, and no use will be made of the identity of any person or establishment discovered inadvertently. Any such discovery would immediately be reported to the CSA.

No attempt will be made to produce links among datasets provided by CSA, or among data from the CSA and other datasets that could identify individuals or organizations.

Any books, articles, conference papers, theses, dissertations, reports, or other publications that employ data obtained from CSA will cite the source of data in accordance with the Citation Requirement provided with each dataset.

An electronic copy of all reports and publications based on the requested data will be sent to CSA.

The original collector of the data, CSA, and the relevant funding agencies bear no responsibility for use of the data or for interpretations or inferences based upon such uses.

Cost Recovery Policy:
It is the policy of CSA to encourage broad use of its products by making them affordable for users. Accordingly, CSA attempts to ensure that the costs of creating anonymized microdata files are built-in to the survey budget.

At the same time, CSA attempts to recover costs associated with the provisions of special services that benefit only a specific group. Information on the price of each dataset is available at CSA website (www.csa.gov.et)

Citation Requirements

The following statement must be used as citation: "Central Statistical Authority of Ethiopia (CSA). Agricultural Sample Survey (AgSS 2004-2005)"

Rights & Disclaimer

Disclaimer

The user of the data acknowledges that the original collector of the data, the authorized distributor of the data, and the relevant funding agency bear no responsibility for use of the data or for interpretations or inferences based upon such uses.

Copyright	(c) 2004, Central Statistical Agency of Ethiopia

Files Description

Dataset contains 3 file(s)

MAIN97_Holder	
# Cases	52923
# Variable(s)	16
File Structure	Type: relational Key(s): v01 (Region) , v02 (Zone) , v03 (Wereda) , v04 (Farmers' association) , v05 (Enumeration area) , v06 (Household number) , v07 (Household head sex) , v08 (Holder number)
File Content Dataset collected at household holder level and contains information about holder's sex, age, educational background and type of holding.	
Producer Central Statistical Agency of Ethiopia	
Version Version 1.1: In this version of the dataset appropriate variable information are provided and missing variable documentation information is also given including value labels.	

MAIN97_Agric	
# Cases	52338
# Variable(s)	20
File Structure	Type: relational Key(s): v01 (Killil) , v02 (Zone) , v03 (Wereda) , v04 (FA) , v05 (Ea) , v06 (Household Number) , v07 (Head Sex) , v08 (Holder) , parcel (Parcel) , field (Field)
File Content This file contains information on some agricultural practices like crop rotation, extension ussage, Source of irrigaton if used, Use of credit service, etc	
Producer Central Statistical Agency (CSA)	
Version Version 1.0	
Processing Checks Editing Coding and Verification Statistical data editing plays an important role in ensuring the quality of the collected survey data. It minimizes the effects of errors introduced while collecting data in the field, hence the need for data editing, coding and verification. Although coding and editing are done by the enumerators and supervisors in the field, respectively, verification of this task is done at the Head Office. An editing, coding and verification instruction manual was prepared and reproduced for this purpose. Then 44 editors-coders and verifiers were trained for two days in editing, coding and verification using the aforementioned manual as a reference and teaching aid. The completed questionnaires were edited, coded and later verified on a 100 % basis before the questionnaires were passed over to the data entry unit. The editing, coding and verification exercise of all questionnaires took 40 days. Data Entry, Cleaning and Tabulation	

Before data entry, the Natural Resources and Agricultural Statistics Department prepared edit specification for the survey for use on personal computers for data consistency checking purposes. The data on the edited and coded questionnaires were then entered into personal computers. The data were then checked and cleaned using the edit specifications prepared earlier for this purpose. The data entry operation involved about 110 data encoders and it took 30 days to finish the job. Finally, summarization of the data was done on personal computers to produce statistical tables as per the tabulation plan.

Missing Data

The missing data values are indicated by "*"

main97_field_new

# Cases	612685
# Variable(s)	43
File Structure	Type: relational Key(s): v01 (Region) , v02 (Zone) , v03 (Wereda) , v04 (Farmers' association) , v05 (Enumeration area) , v06 (Household number) , v07 (Household head sex) , v08 (Holder number) , parcel (Parcel) , field (Field) , part (Field part) , crop (Crop or land use)

File Content

This file contains the area and production obtained from each field in addition to some agricultural practices information, like usage of fertilizer, improved seed, quantity of fertilizer and improved seed used etc.

Producer

Central Statistical Agency of Ethiopia

Version

Version 1.1: In this version of the dataset appropriate variable information are provided and missing variable documentation information is also given including value labels.

Variables List

Dataset contains 79 variable(s)

File MAIN97_Holder

#	Name	Label	Type	Format	Valid	Invalid	Question
1	v01	Region	discrete	numeric-2.0	52923	0	Region
2	v02	Zone	continuous	numeric-2.0	52923	0	Zone
3	v03	Wereda	continuous	numeric-2.0	52923	0	Wereda
4	v04	Farmers' association	continuous	numeric-3.0	52923	0	Farmers' association
5	v05	Enumeration area	continuous	numeric-2.0	52923	0	Enumeration area
6	v06	Household number	continuous	numeric-3.0	52923	0	Household number
7	v07	Household head sex	discrete	numeric-1.0	52923	0	Household head sex
8	v08	Holder number	continuous	numeric-1.0	52923	0	Holder number
9	parcel	Parcel	continuous	numeric-2.0	0	52923	-
10	field	Field	continuous	numeric-2.0	0	52923	-
11	hweight	Holder weight	continuous	numeric-7.2	52923	0	Holder weight
12	v09	Holder age	continuous	numeric-2.0	52910	13	Holder's age
13	v10	Holder sex	discrete	numeric-1.0	52923	0	Holder's sex
14	v11	Educational status or highest grade completed	discrete	numeric-2.0	52923	0	Educational status or highest grade completed
15	v12	Household size	continuous	numeric-2.0	52923	0	Household size
16	v13	Holding type	discrete	numeric-1.0	52920	3	Holding type

File MAIN97_Agric

#	Name	Label	Type	Format	Valid	Invalid	Question
1	v01	Killil	continuous	numeric-2.0	52338	0	Region
2	v02	Zone	continuous	numeric-2.0	52338	0	Zone
3	v03	Wereda	continuous	numeric-2.0	52338	0	Wereda
4	v04	FA	continuous	numeric-3.0	52338	0	Farmers' Association
5	v05	Ea	continuous	numeric-2.0	52338	0	EA
6	v06	Household Number	continuous	numeric-3.0	52338	0	Household ID
7	v07	Head Sex	continuous	numeric-1.0	52338	0	Household Head Sex
8	v08	Holder	continuous	numeric-1.0	52338	0	Holder ID
9	parcel	Parcel	continuous	numeric-2.0	52338	0	-
10	field	Field	continuous	numeric-2.0	52338	0	-
11	aweight	Aweight	continuous	numeric-7.2	52338	0	-
12	f1	Crop rotation	discrete	numeric-1.0	50618	1720	Do you practice rotation of crops?
13	f2	Source of irrigaton if used	discrete	numeric-1.0	50525	1813	If irrigation used, source of water
14	f3	Soil conservation	discrete	numeric-1.0	50529	1809	Ways of prevention of erosion, if any?
15	f4	Reason for not using chemical fertilizer	discrete	numeric-2.0	35026	17312	Reasons for not using mineral fertilizer

File MAIN97_Agric

#	Name	Label	Type	Format	Valid	Invalid	Question
16	f5	Covered in extension program current crop year	discrete	numeric-1.0	52165	173	Extension package practice during this agricultural season, if any?
17	f6	Reason if not covered in extension program	discrete	numeric-2.0	42756	9582	If no, reason for not practicing in extension package
18	f7	Use of credit service	discrete	numeric-1.0	52297	41	Benefits from credit services in the locality, if any?
19	f8	Use of advisory service	discrete	numeric-1.0	52285	53	Benefits from Agricultural Advisory Service from the locality,if any?
20	f9	Where do you buy chemical fertilizer	discrete	numeric-1.0	50579	1759	Your major supplier of mineral fertilizers

File main97_field_new

#	Name	Label	Type	Format	Valid	Invalid	Question
1	v01	Region	discrete	numeric-2.0	612685	0	Region
2	v02	Zone	continuous	numeric-2.0	612685	0	Zone
3	v03	Wereda	continuous	numeric-2.0	612685	0	Wereda
4	v04	Farmers' association	continuous	numeric-3.0	612685	0	Farmers' association
5	v05	Enumeration area	continuous	numeric-2.0	612685	0	Enumeration area
6	v06	Household number	continuous	numeric-3.0	612685	0	Household number
7	v07	Household head sex	discrete	numeric-1.0	612685	0	Household head sex
8	v08	Holder number	continuous	numeric-1.0	612685	0	Holder number
9	parcel	Parcel	continuous	numeric-2.0	612685	0	Parcel number
10	field	Field	continuous	numeric-2.0	612685	0	Field number
11	fweight	Field weight	continuous	numeric-7.2	612685	0	Field weight
12	part	Field part	discrete	numeric-1.0	612685	0	Field part
13	crop	Crop or land use	discrete	numeric-3.0	612684	1	Name of the crop
14	owntype	Owner type	discrete	numeric-1.0	612684	1	Ownership type
15	ext	Under extension	discrete	numeric-1.0	476037	136648	Is field under extension package?
16	trees	Number of fruit trees	continuous	numeric-7.0	64167	548518	Number of fruit trees(excluding coffee, chat, pineapple, sugarcane)
17	treesba	Number of fruit trees of bearing age	continuous	numeric-7.0	60289	552396	Number of fruit bearing trees (excluding coffee, chat, pineapple, sugarcane)
18	irrg	Irrigation used	discrete	numeric-1.0	476057	136628	Is irrigation applied?
19	seedtype	Seed type	discrete	numeric-1.0	475249	137436	Seed/seedling type
20	wtniseed	Weight of non-improved seed	continuous	numeric-8.3	250988	361697	For cereals, pulses and oilseeds only, quantity of indeginious seed
21	wtimseed	Weight of improved seed	continuous	numeric-8.3	5263	607422	For cereals, pulses and oilseeds only, quantity of improved seed
22	costimps	Improved seed cost	continuous	numeric-9.2	4872	607813	For cereals, pulses and oilseeds only, quantity of price of improved seed
23	damage	Any crop damage	discrete	numeric-1.0	474498	138187	Was there any crop damage?
24	dreason	Damage reason	discrete	numeric-2.0	155307	457378	If crop damaged, causes of damage

File main97_field_new

#	Name	Label	Type	Format	Valid	Invalid	Question
25	dpercent	Damage percent	continuous	numeric-3.0	154536	458149	Percent damaged
26	dmeasure	Any measure to prevent damage	discrete	numeric-1.0	474797	137888	Was any prevention measure taken?
27	dmtype	Type of damage prevention	discrete	numeric-1.0	454786	157899	If yes, type of measure taken
28	dmchem	Chemical used	discrete	numeric-1.0	7106	605579	If chemical used, type of chemical
29	fert	Ferilizer used	discrete	numeric-1.0	476042	136643	Have you used any fertilizer?
30	ferttype	Fertilizer type	discrete	numeric-1.0	224436	388249	If yes, type of fertilizer
31	d21a	Chemical fertilizer type	discrete	numeric-1.0	58528	554157	If mineral fertilizer used, type
32	d21b	Quantity of chemical fertilizer	continuous	numeric-8.3	56920	555765	Quantity of miniral fertilizer in killogram
33	d22	Natural fertilizer type	discrete	numeric-1.0	174322	438363	If organic fertilizer used,type
34	apercent	Percent of field in use	continuous	numeric-3.0	611352	1333	Percentage share of crop area
35	aday	Area measure - day	continuous	numeric-2.0	596899	15786	Area measurement day
36	amonth	Area measure - month	continuous	numeric-2.0	603813	8872	Area measurement month
37	anotmeas	Reason for not measuring area	discrete	numeric-1.0	4231	608454	If no area measurement,reason
38	enumarea	Enumerator area (SQ. M)	continuous	numeric-8.2	598944	13741	Area in square meters
39	comparea	Computer area (SQ. M)	continuous	numeric-8.2	591887	20798	Area computed using computers by taking
40	areah	Area in hectar	continuous	numeric-8.6	611867	818	Area in hectar (used in the report)
41	area	Area in (SQ. M)	continuous	numeric-8.2	611866	819	Area in (SQ. M)
42	prodq	Production in quintal	continuous	numeric-10.4	407631	205054	Production in quintal (used in the report)
43	prod	Dry weight production (KG)	continuous	numeric-10.3	407631	205054	Dry weight (from 4 X 4 sampled field)

Variables Description

Dataset contains79 variable(s)

File MAIN97_Holder

#1 v01: Region

Information	[Type= discrete] [Format=numeric] [Range= 1-15] [Missing=*]
Statistics [NW/ W]	[Valid=52923 / 11544785.14] [Invalid=0 / 0]
Literal question	Region

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Tigray	4240	708885.5	6.1%
2	Afar	1447	31357.1	0.3%
3	Amhara	10269	3136269.2	27.2%
4	Oromiya	14360	4805607.0	41.6%
5	Somalie	2079	102944.8	0.9%
6	Benshangul	2164	136289.9	1.2%
7	SNNP	16432	2586298.7	22.4%
12	Gambela	0	0.0	0.0%
13	Harari	603	14908.0	0.1%
14	Addis ababa	720	5261.8	0.0%
15	Dire dawa	609	16963.2	0.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#2 v02: Zone

Information	[Type= continuous] [Format=numeric] [Range= 1-21] [Missing=*]
Statistics [NW/ W]	[Valid=52923 /-] [Invalid=0 /-] [Mean=6.853 /-] [StdDev=5.042 /-]
Literal question	Zone

#3 v03: Wereda

Information	[Type= continuous] [Format=numeric] [Range= 1-35] [Missing=*]
Statistics [NW/ W]	[Valid=52923 /-] [Invalid=0 /-] [Mean=6.603 /-] [StdDev=6.086 /-]
Literal question	Wereda

#4 v04: Farmers' association

Information	[Type= continuous] [Format=numeric] [Range= 1-126] [Missing=*]
Statistics [NW/ W]	[Valid=52923 /-] [Invalid=0 /-] [Mean=26.144 /-] [StdDev=21.513 /-]
Literal question	Farmers' association

#5 v05: Enumeration area

Information	[Type= continuous] [Format=numeric] [Range= 1-12] [Missing=*]
Statistics [NW/ W]	[Valid=52923 /-] [Invalid=0 /-] [Mean=1.95 /-] [StdDev=1.296 /-]
Literal question	Enumeration area

#6 v06: Household number

Information	[Type= continuous] [Format=numeric] [Range= 1-999] [Missing=*]
Statistics [NW/ W]	[Valid=52923 /-] [Invalid=0 /-] [Mean=113.028 /-] [StdDev=86.251 /-]
Literal question	Household number

File MAIN97_Holder

#7 v07: Household head sex

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=52923 / 11544785.14] [Invalid=0 / 0]
Literal question	Household head sex

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Male	41999	9152903.4	79.3%
2	Female	10924	2391881.7	20.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#8 v08: Holder number

Information	[Type= continuous] [Format=numeric] [Range= 1-8] [Missing=*]
Statistics [NW/ W]	[Valid=52923 /-] [Invalid=0 /-] [Mean=1.06 /-] [StdDev=0.282 /-]
Literal question	Holder number

#9 parcel: Parcel

Information	[Type= continuous] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=52923 /-]

#10 field: Field

Information	[Type= continuous] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=52923 /-]

#11 hweight: Holder weight

Information	[Type= continuous] [Format=numeric] [Range= 2.76-1052.44] [Missing=*]
Statistics [NW/ W]	[Valid=52923 /-] [Invalid=0 /-] [Mean=218.143 /-] [StdDev=156.576 /-]
Literal question	Holder weight
Recoding and Derivation	The raising factor obtained from the methodology service.

#12 v09: Holder age

Information	[Type= continuous] [Format=numeric] [Range= 1-98] [Missing=*/99]
Statistics [NW/ W]	[Valid=52910 / 11542540.66] [Invalid=13 / 2244.48]
Literal question	Holder's age

Frequency table not shown (98 Modalities)

#13 v10: Holder sex

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=52923 / 11544785.14] [Invalid=0 / 0]
Literal question	Holder's sex

Value	Label	Cases	Weighted	Percentage (Weighted)
0		2	294.2	0.0%
1	Male	42201	9211834.3	79.8%
2	Female	10719	2332346.9	20.2%
4		1	309.6	0.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#14 v11: Educational status or highest grade completed

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]

File MAIN97_Holder

#14 v11: Educational status or highest grade completed

Statistics [NW/ W]	[Valid=52923 / 11544785.14] [Invalid=0 / 0]
Literal question	Educational status or highest grade completed

Value	Label	Cases	Weighted	Percentage (Weighted)
0		1	24.0	0.0%
1	Illitrate	37085	7925218.1	68.6%
2	Informal education	3723	896556.3	7.8%
3	Grade 1 completed	1021	214952.6	1.9%
4	Grade 2 completed	1831	419629.8	3.6%
5	Grade 3 completed	1977	444586.3	3.9%
6	Grade 4 completed	1776	406565.2	3.5%
7	Grade 5 completed	1506	347041.0	3.0%
8	Grade 6 completed	1502	333044.7	2.9%
9	Grade 7 completed	902	198207.4	1.7%
10	Grade 8 completed	807	181579.6	1.6%
11	Grade 9 complete through the old education system	243	56400.9	0.5%
12	Grade 10 completed through the old education system	136	31375.5	0.3%
13	Grade 11 completed through the old education system	35	8093.5	0.1%
14	Grade 12 completed through the old education system	286	63939.1	0.6%
15	Above grade 12	85	16134.5	0.1%
16	Grade 9 complete through the new education system	0	0.0	0.0%
17	Grade 10 complete through the new education system	0	0.0	0.0%
18	Studing at the vocational school after completion of grade 10 through the new education system	0	0.0	0.0%
19	Obtained certificate after complition of voccational school through the new education system	0	0.0	0.0%
20	Completed grade 11 preparatory studies for higher education	0	0.0	0.0%
21	Completed grade 12 preparatory studies for higher education	0	0.0	0.0%
22	Above from grade 12 preparatory studies	6	1148.7	0.0%
70		1	287.8	0.0%
99	Not stated	0	0.0	0.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#15 v12: Household size

Information	[Type= continuous] [Format=numeric] [Range= 1-73] [Missing=*]
Statistics [NW/ W]	[Valid=52923 / 11544785.14] [Invalid=0 / 0]
Literal question	Household size

Value	Label	Cases	Weighted	Percentage (Weighted)
1	1	1515	302702.1	2.6%

File MAIN97_Holder

#15 v12: Household size

Value	Label	Cases	Weighted	Percentage (Weighted)
2	2	4451	956471.2	8.3%
3	3	7461	1636102.1	14.2%
4	4	8889	1905235.4	16.5%
5	5	8816	1915995.6	16.6%
6	6	7528	1663492.9	14.4%
7	7	5894	1309219.5	11.3%
8	8	3852	861946.9	7.5%
9	9	2156	482401.4	4.2%
10	10	1288	285994.1	2.5%
11	11	528	113538.8	1.0%
12	12	323	69319.4	0.6%
13	13	96	19175.2	0.2%
14	14	51	9999.0	0.1%
15	15	40	6077.8	0.1%
16	16	12	3127.3	0.0%
17	17	7	853.4	0.0%
18	18	3	740.4	0.0%
19	19	1	117.5	0.0%
20	20	3	449.8	0.0%
21	21	1	26.6	0.0%
23	23	1	363.2	0.0%
27	27	1	230.2	0.0%
28	28	1	230.2	0.0%
30	30	2	656.8	0.0%
40	40	1	24.0	0.0%
41	41	1	6.4	0.0%
73	73	1	287.8	0.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#16 v13: Holding type

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=52920 / 11544396.14] [Invalid=3 / 389]
Literal question	Holding type

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Crop	5899	1334914.6	11.6%
2	Livestock	3327	475168.3	4.1%
3	Both	43692	9733979.7	84.3%
6		1	309.6	0.0%
8		1	24.0	0.0%
Sysmiss		3	389.0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File MAIN97_Agric

#1 v01: Killil

Information	[Type= continuous] [Format=numeric] [Range= 1-15] [Missing=*]
Statistics [NW/ W]	[Valid=52338 /-] [Invalid=0 /-] [Mean=4.93 /-] [StdDev=2.617 /-]
Literal question	Region

Value	Label	Cases	Percentage
1	Tigray	4192	8.0%
2	Afar	1424	2.7%
3	Amhara	10178	19.4%
4	Oromia	14167	27.1%
5	Somale	2075	4.0%
6	Benshangul-Gumuz	2119	4.0%
7	SNNPR	16265	31.1%
12	Gambella	0	0.0%
13	Harari	599	1.1%
14	Addis Ababa	710	1.4%
15	Dire Dawa	609	1.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#2 v02: Zone

Information	[Type= continuous] [Format=numeric] [Range= 1-21] [Missing=*]
Statistics [NW/ W]	[Valid=52338 /-] [Invalid=0 /-] [Mean=6.861 /-] [StdDev=5.049 /-]
Literal question	Zone

#3 v03: Wereda

Information	[Type= continuous] [Format=numeric] [Range= 1-35] [Missing=*]
Statistics [NW/ W]	[Valid=52338 /-] [Invalid=0 /-] [Mean=6.59 /-] [StdDev=6.066 /-]
Literal question	Wereda

#4 v04: FA

Information	[Type= continuous] [Format=numeric] [Range= 1-126] [Missing=*]
Statistics [NW/ W]	[Valid=52338 /-] [Invalid=0 /-] [Mean=26.137 /-] [StdDev=21.513 /-]
Literal question	Farmers' Association

#5 v05: Ea

Information	[Type= continuous] [Format=numeric] [Range= 1-12] [Missing=*]
Statistics [NW/ W]	[Valid=52338 /-] [Invalid=0 /-] [Mean=1.953 /-] [StdDev=1.299 /-]
Literal question	EA

#6 v06: Household Number

Information	[Type= continuous] [Format=numeric] [Range= 1-999] [Missing=*]
Statistics [NW/ W]	[Valid=52338 /-] [Invalid=0 /-] [Mean=113.084 /-] [StdDev=86.318 /-]
Literal question	Household ID

#7 v07: Head Sex

Information	[Type= continuous] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=52338 /-] [Invalid=0 /-] [Mean=1.206 /-] [StdDev=0.404 /-]
Literal question	Household Head Sex

File MAIN97_Agric

#8 v08: Holder

Information	[Type= continuous] [Format=numeric] [Range= 1-8] [Missing=*]
Statistics [NW/ W]	[Valid=52338 /-] [Invalid=0 /-] [Mean=1.051 /-] [StdDev=0.262 /-]
Literal question	Holder ID

#9 parcel: Parcel

Information	[Type= continuous] [Format=numeric] [Range= 99-99] [Missing=*]
Statistics [NW/ W]	[Valid=52338 /-] [Invalid=0 /-] [Mean=99 /-] [StdDev=0 /-]

#10 field: Field

Information	[Type= continuous] [Format=numeric] [Range= 99-99] [Missing=*]
Statistics [NW/ W]	[Valid=52338 /-] [Invalid=0 /-] [Mean=99 /-] [StdDev=0 /-]

#11 aweight: Aweight

Information	[Type= continuous] [Format=numeric] [Range= 2.76-1052.44] [Missing=*]
Statistics [NW/ W]	[Valid=52338 /-] [Invalid=0 /-] [Mean=217.989 /-] [StdDev=156.385 /-]
Recoding and Derivation	The raising factor obtained from the methodology service.

#12 f1: Crop rotation

Information	[Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*]
Statistics [NW/ W]	[Valid=50618 / 11214018.92] [Invalid=1720 / 195106.4] [Mean=1.251 / 1.205] [StdDev=0.435 / 0.406]
Literal question	Do you practice rotation of crops?

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Yes	37934	8916609.6	79.5%
2	No	12682	2296779.0	20.5%
7	Yes	2	630.3	0.0%
Sysmiss		1720	195106.4	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#13 f2: Source of irrigaton if used

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=50525 / 11201552.71] [Invalid=1813 / 207572.61] [Mean=5.528 / 5.572] [StdDev=1.388 / 1.317]
Literal question	If irrigation used, source of water

Value	Label	Cases	Weighted	Percentage (Weighted)
1	River	3509	663158.9	5.9%
2	Lake	938	219700.0	2.0%
3	Pool	465	112498.7	1.0%
4	Pond	285	58586.8	0.5%
5	Other	584	141576.6	1.3%
6	None	44744	10006031.7	89.3%
Sysmiss		1813	207572.6	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#14 f3: Soil conservation

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=50529 / 11201703.34] [Invalid=1809 / 207421.98] [Mean=3.83 / 3.795] [StdDev=1.798 / 1.776]
Literal question	Ways of prevention of erosion, if any?

File MAIN97_Agric

#14 f3: Soil conservation

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Terracing	10466	2364774.1	21.1%
2	Water catchment	3710	765112.9	6.8%
3	Afforestation	232	46957.9	0.4%
4	Ploughing along the countour	18186	4170411.7	37.2%
5	Others	5393	1335852.2	11.9%
6	None	12542	2518594.5	22.5%
Sysmiss		1809	207422.0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#15 f4: Reason for not using chemical fertilizer

Information	[Type= discrete] [Format=numeric] [Range= 1-72] [Missing=*]
Statistics [NW/ W]	[Valid=35026 / 7188231.3] [Invalid=17312 / 4220894.02] [Mean=3.681 / 3.676] [StdDev=2.116 / 2.097]
Literal question	Reasons for not using mineral fertilizer

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Lack of awareness	4031	724115.8	10.1%
2	Expensive	4985	1115210.8	15.5%
3	Lack of Finance	14213	3055857.0	42.5%
4	Shortage of supply	2690	403861.6	5.6%
5	No Credit Service	253	55069.6	0.8%
6	Doughtful about productivity	2112	514161.8	7.2%
7	Others	6724	1316073.8	18.3%
10	Others	1	174.6	0.0%
11	Others	2	494.7	0.0%
12	Others	1	242.6	0.0%
15	Others	5	1248.2	0.0%
17	Others	1	71.4	0.0%
22	Others	2	301.3	0.0%
30	Others	1	135.5	0.0%
32	Others	1	339.8	0.0%
66	Others	1	421.3	0.0%
72	Others	3	451.7	0.0%
Sysmiss		17312	4220894.0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#16 f5: Covered in extension program current crop year

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=52165 / 11372986.65] [Invalid=173 / 36138.67] [Mean=1.821 / 1.778] [StdDev=0.384 / 0.416]
Literal question	Extension package practice during this agricultural season, if any?

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Yes	9361	2524752.3	22.2%
2	No	42804	8848234.4	77.8%
Sysmiss		173	36138.7	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File MAIN97_Agric

#17 f6: Reason if not covered in extension program

Information	[Type= discrete] [Format=numeric] [Range= 1-42] [Missing=*]
Statistics [NW/ W]	[Valid=42756 / 8824456.01] [Invalid=9582 / 2584669.31] [Mean=3.037 / 3.02] [StdDev=1.539 / 1.551]
Literal question	If no, reason for not practicing in extension package

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Lack of awareness	7390	1463353.8	16.6%
2	Lack of finance	13212	2920022.9	33.1%
3	Doutfulness about the Productivity	3274	723418.8	8.2%
4	Non availability of the program	11147	2036523.3	23.1%
5	Lack of land or livestock	4920	1091944.3	12.4%
6	Others	2702	566644.1	6.4%
7	Others	107	21623.3	0.2%
11	Others	2	466.4	0.0%
13	Others	1	85.3	0.0%
42	Others	1	373.8	0.0%
Sysmiss		9582	2584669.3	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#18 f7: Use of credit service

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=52297 / 11399100.76] [Invalid=41 / 10024.56] [Mean=1.93 / 1.923] [StdDev=0.255 / 0.267]
Literal question	Benefits from credit services in the locality, if any?

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Yes	3641	877630.3	7.7%
2	No	48656	10521470.4	92.3%
Sysmiss		41	10024.6	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#19 f8: Use of advisory service

Information	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
Statistics [NW/ W]	[Valid=52285 / 11395981.59] [Invalid=53 / 13143.73] [Mean=1.726 / 1.684] [StdDev=0.446 / 0.465]
Literal question	Benefits from Agricultural Advisory Service from the locality,if any?

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Yes	14310	3600129.0	31.6%
2	No	37974	7795265.5	68.4%
5	No	1	587.1	0.0%
Sysmiss		53	13143.7	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#20 f9: Where do you buy chemical fertilizer

Information	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
Statistics [NW/ W]	[Valid=50579 / 11201973.91] [Invalid=1759 / 207151.41] [Mean=3.964 / 3.77] [StdDev=1.586 / 1.67]
Literal question	Your major supplier of mineral fertilizers

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Government Organizations	9272	2489793.6	22.2%

File MAIN97_Agric

#20 f9: Where do you buy chemical fertilizer

Value	Label	Cases	Weighted	Percentage (Weighted)
2	Private Organizations	1465	414307.8	3.7%
3	Traders	4482	1023019.4	9.1%
4	Others	1929	535503.2	4.8%
5	None	33431	6739349.9	60.2%
Sysmiss		1759	207151.4	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File main97_field_new

#1 v01: Region

Information	[Type= discrete] [Format=numeric] [Range= 1-15] [Missing=*]
Statistics [NW/ W]	[Valid=612685 / 137994291.97] [Invalid=0 / 0]
Literal question	Region

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Tigray	41963	7065532.1	5.1%
2	Afar	5420	116656.3	0.1%
3	Amhara	118309	36497536.6	26.4%
4	Oromiya	165817	55366475.1	40.1%
5	Somalie	12546	749500.7	0.5%
6	Benshangul	19423	1251543.8	0.9%
7	SNNP	230557	36594345.4	26.5%
12	Gambela	0	0.0	0.0%
13	Harari	6449	159640.7	0.1%
14	Addis ababa	7164	52918.9	0.0%
15	Dire dawa	5037	140142.2	0.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#2 v02: Zone

Information	[Type= continuous] [Format=numeric] [Range= 1-21] [Missing=*]
Statistics [NW/ W]	[Valid=612685 /-] [Invalid=0 /-] [Mean=7.149 /-] [StdDev=5.333 /-]
Literal question	Zone

#3 v03: Wereda

Information	[Type= continuous] [Format=numeric] [Range= 1-35] [Missing=*]
Statistics [NW/ W]	[Valid=612685 /-] [Invalid=0 /-] [Mean=6.688 /-] [StdDev=6.19 /-]
Literal question	Wereda

#4 v04: Farmers' association

Information	[Type= continuous] [Format=numeric] [Range= 1-126] [Missing=*]
Statistics [NW/ W]	[Valid=612685 /-] [Invalid=0 /-] [Mean=27.216 /-] [StdDev=21.645 /-]
Literal question	Farmers' association

#5 v05: Enumeration area

Information	[Type= continuous] [Format=numeric] [Range= 1-12] [Missing=*]
Statistics [NW/ W]	[Valid=612685 /-] [Invalid=0 /-] [Mean=1.991 /-] [StdDev=1.306 /-]

File main97_field_new

#5 v05: Enumeration area

Literal question	Enumeration area

#6 v06: Household number

Information	[Type= continuous] [Format=numeric] [Range= 1-999] [Missing=*]
Statistics [NW/ W]	[Valid=612685 /-] [Invalid=0 /-] [Mean=113.127 /-] [StdDev=83.389 /-]
Literal question	Household number

#7 v07: Household head sex

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=612685 / 137994291.97] [Invalid=0 / 0]
Literal question	Household head sex

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Male	512288	115938670.1	84.0%
2	Female	100397	22055621.9	16.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#8 v08: Holder number

Information	[Type= continuous] [Format=numeric] [Range= 1-8] [Missing=*]
Statistics [NW/ W]	[Valid=612685 /-] [Invalid=0 /-] [Mean=1.012 /-] [StdDev=0.126 /-]
Literal question	Holder number

#9 parcel: Parcel

Information	[Type= continuous] [Format=numeric] [Range= 0-96] [Missing=*]
Statistics [NW/ W]	[Valid=612685 /-] [Invalid=0 /-] [Mean=1.982 /-] [StdDev=1.812 /-]
Literal question	Parcel number

#10 field: Field

Information	[Type= continuous] [Format=numeric] [Range= 0-99] [Missing=*]
Statistics [NW/ W]	[Valid=612685 /-] [Invalid=0 /-] [Mean=4.224 /-] [StdDev=4.28 /-]
Literal question	Field number

#11 fweight: Field weight

Information	[Type= continuous] [Format=numeric] [Range= 2.76-1052.44] [Missing=*]
Statistics [NW/ W]	[Valid=612685 /-] [Invalid=0 /-] [Mean=225.229 /-] [StdDev=150.704 /-]
Literal question	Field weight
Recoding and Derivation	The raising factor obtained from the methodology service.

#12 part: Field part

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=612685 /-] [Invalid=0 /-]
Literal question	Field part
Recoding and Derivation	Type of the field

Value	Label	Cases	Percentage
1	Temporary	503444	82.2%
2	Permanent	78754	12.9%

File main97_field_new

#12 part: Field part

Value	Label	Cases	Percentage
3	Mixed	30487	5.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#13 crop: Crop or land use

Information	[Type= discrete] [Format=numeric] [Range= 0-124] [Missing=*]
Statistics [NW/ W]	[Valid=612684 / 137993950.38] [Invalid=1 / 341.59]
Literal question	Name of the crop

Frequency table not shown (121 Modalities)

#14 owntype: Owner type

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=612684 / 137993950.38] [Invalid=1 / 341.59]
Literal question	Ownership type

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Owned	562778	125776622.3	91.1%
2	Rent/leased	32697	7911633.8	5.7%
3	Other	17209	4305694.3	3.1%
Sysmiss		1	341.6	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#15 ext: Under extension

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=476037 / 106895776.75] [Invalid=136648 / 31098515.22]
Literal question	Is field under extension package?

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Yes	40657	10500275.2	9.8%
2	No	435380	96395501.5	90.2%
Sysmiss		136648	31098515.2	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#16 trees: Number of fruit trees

Information	[Type= continuous] [Format=numeric] [Range= 0-9999999] [Missing=*/9999999/99999]
Statistics [NW/ W]	[Valid=64167 / 13031659.79] [Invalid=548518 / 124962632.18] [Mean=159.424 / 165.603] [StdDev=7908.052 / 4406.354]
Literal question	Number of fruit trees(excluding coffee, chat, pineapple, sugarcane)

#17 treesba: Number of fruit trees of bearing age

Information	[Type= continuous] [Format=numeric] [Range= 0-9999999] [Missing=*/9999999/99999]
Statistics [NW/ W]	[Valid=60289 / 12161545.61] [Invalid=552396 / 125832746.36] [Mean=29.458 / 37.163] [StdDev=180.181 / 221.181]
Literal question	Number of fruit bearing trees (excluding coffee, chat, pineapple, sugarcane)

#18 irrg: Irrigation used

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=476057 / 106888000.26] [Invalid=136628 / 31106291.71]

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#18 irrg: Irrigation used

Literal question	Is irrigation applied?

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Yes	16171	2839859.7	2.7%
2	No	459886	104048140.6	97.3%
Sysmiss		136628	31106291.7	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#19 seedtype: Seed type

Information	[Type= discrete] [Format=numeric] [Range= 0-2] [Missing=*]
Statistics [NW/ W]	[Valid=475249 / 106780899.06] [Invalid=137436 / 31213392.91]
Literal question	Seed/seedling type

Value	Label	Cases	Weighted	Percentage (Weighted)
0		83	6324.1	0.0%
1	Improved	9156	2249683.5	2.1%
2	Non-improved	466010	104524891.4	97.9%
Sysmiss		137436	31213392.9	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#20 wtniseed: Weight of non-improved seed

Information	[Type= continuous] [Format=numeric] [Range= 0-9999.999] [Missing=*/9999.999/9999]
Statistics [NW/ W]	[Valid=250988 / 58396518.21] [Invalid=361697 / 79597773.76] [Mean=10.832 / 11.734] [StdDev=41.574 / 29.366]
Literal question	For cereals, pulses and oilseeds only, quantity of indeginious seed

#21 wtimseed: Weight of improved seed

Information	[Type= continuous] [Format=numeric] [Range= 0.003-9999.999] [Missing=*/9999.999]
Statistics [NW/ W]	[Valid=5263 / 1422014.27] [Invalid=607422 / 136572277.7] [Mean=10.331 / 10.46] [StdDev=26.94 / 21.011]
Literal question	For cereals, pulses and oilseeds only, quantity of improved seed

#22 costimps: Improved seed cost

Information	[Type= continuous] [Format=numeric] [Range= 0.12-999999.99] [Missing=*/999999.99/999990.99/99999.99]
Statistics [NW/ W]	[Valid=4872 / 1319746.5] [Invalid=607813 / 136674545.47] [Mean=40.372 / 42.708] [StdDev=53.171 / 51.426]
Literal question	For cereals, pulses and oilseeds only, quantity of price of improved seed

#23 damage: Any crop damage

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=474498 / 106611074.77] [Invalid=138187 / 31383217.2]
Literal question	Was there any crop damage?

Value	Label	Cases	Weighted	Percentage (Weighted)
0		7	592.9	0.0%
1	Yes	155254	33616521.8	31.5%
2	No	319232	72993563.3	68.5%
3		1	62.4	0.0%
4		1	68.5	0.0%
5		1	88.6	0.0%

File main97_field_new

#23 damage: Any crop damage

Value	Label	Cases	Weighted	Percentage (Weighted)
6		1	88.6	0.0%
8		1	88.6	0.0%
Sysmiss		138187	31383217.2	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#24 dreason: Damage reason

Information	[Type= discrete] [Format=numeric] [Range= 0-50] [Missing=*]
Statistics [NW/ W]	[Valid=155307 / 33626448.03] [Invalid=457378 / 104367843.94]
Pre-question	If any damage occured
Literal question	If crop damaged, causes of damage

Value	Label	Cases	Weighted	Percentage (Weighted)
0		12	963.3	0.0%
1	Too much rain	19195	3896775.2	11.6%
2	Too little rain	1350	306612.6	0.9%
3	Insects	3729	817699.4	2.4%
4	Crop disease	966	215089.9	0.6%
5	Weeds	24089	5367299.0	16.0%
6	Hail	56624	11140217.3	33.1%
7	Frost	4591	1279248.6	3.8%
8	Floods	6997	1267368.5	3.8%
9	Wild animals	1684	420505.8	1.3%
10	Locust	10567	2689476.3	8.0%
11	Birds	8240	1878847.3	5.6%
12	Shortage of seeds	459	118169.4	0.4%
13	Depletion of soil fertility	9878	2570364.2	7.6%
14	Security problems	8	976.3	0.0%
15	Others	6917	1656772.5	4.9%
50		1	62.4	0.0%
Sysmiss		457378	104367843.9	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#25 dpercent: Damage percent

Information	[Type= continuous] [Format=numeric] [Range= 1-999] [Missing=*/999]
Statistics [NW/ W]	[Valid=154536 / 33448493.3] [Invalid=458149 / 104545798.67]
Pre-question	If any damage occured
Literal question	Percent damaged

Frequency table not shown (82 Modalities)

#26 dmeasure: Any measure to prevent damage

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=474797 / 106659733.94] [Invalid=137888 / 31334558.03]
Pre-question	If any damage occured
Literal question	Was any prevention measure taken?

File main97_field_new

#26 dmeasure: Any measure to prevent damage

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Yes	454759	102299295.2	95.9%
2	No	20038	4360438.8	4.1%
Sysmiss		137888	31334558.0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#27 dmtype: Type of damage prevention

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=454786 / 102303854.48] [Invalid=157899 / 35690437.49]
Literal question	If yes, type of measure taken

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Chemical	7037	1837713.4	1.8%
2	Non-chemical	435888	97269220.8	95.1%
3	Both	11861	3196920.2	3.1%
Sysmiss		157899	35690437.5	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#28 dmchem: Chemical used

Information	[Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*]
Statistics [NW/ W]	[Valid=7106 / 1843456.45] [Invalid=605579 / 136150835.52]
Pre-question	If chemical is used to prevent damage
Literal question	If chemical used, type of chemical

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Insecticide	1170	235608.3	12.8%
2	Herbicide	5284	1461796.0	79.3%
3	Fungicide	241	44747.8	2.4%
4	Insectcide & herbicide	28	8039.4	0.4%
5	Insectcide & fungicide	2	443.6	0.0%
6	Herbicide & fungicide	2	978.4	0.1%
7	All	1	29.6	0.0%
9	Not stated	378	91813.4	5.0%
Sysmiss		605579	136150835.5	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#29 fert: Ferilizer used

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=476042 / 106896165.26] [Invalid=136643 / 31098126.71]
Literal question	Have you used any fertilizer?

Value	Label	Cases	Weighted	Percentage (Weighted)
0		5	388.5	0.0%
1	Yes	224836	53622729.2	50.2%
2	No	251201	53273047.6	49.8%
Sysmiss		136643	31098126.7	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

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#30 ferttype: Fertilizer type

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
Statistics [NW/ W]	[Valid=224436 / 53522117.47] [Invalid=388249 / 84472174.5]
Pre-question	If fertilizer is used
Literal question	If yes, type of fertilizer

Value	Label	Cases	Weighted	Percentage (Weighted)
0		5	388.5	0.0%
1	Natural	165911	38406685.0	71.8%
2	Chemical	50199	13247694.2	24.8%
3	Both	8321	1867349.7	3.5%
Sysmiss		388249	84472174.5	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#31 d21a: Chemical fertilizer type

Information	[Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*]
Statistics [NW/ W]	[Valid=58528 / 15116455.45] [Invalid=554157 / 122877836.52]
Pre-question	If mineral fertilizer is used
Literal question	If mineral fertilizer used, type

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Urea	6093	1336106.5	8.8%
2	Dap	24241	6909744.9	45.7%
3	Both	27285	6645130.5	44.0%
9	Not stated	909	225473.5	1.5%
Sysmiss		554157	122877836.5	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#32 d21b: Quantity of chemical fertilizer

Information	[Type= continuous] [Format=numeric] [Range= 0.001-9999.999] [Missing=*/9999.999]
Statistics [NW/ W]	[Valid=56920 / 14672344.38] [Invalid=555765 / 123321947.59] [Mean=21.378 / 19.919] [StdDev=32.13 / 28.789]
Pre-question	If mineral fertilizer is used
Literal question	Quantity of miniral fertilizer in killogram

#33 d22: Natural fertilizer type

Information	[Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*]
Statistics [NW/ W]	[Valid=174322 / 40282127.17] [Invalid=438363 / 97712164.8]
Pre-question	If organic fertilizer is used
Literal question	If organic fertilizer used,type

Value	Label	Cases	Weighted	Percentage (Weighted)
0		76	5824.0	0.0%
1	Cow dung (manure)	144457	33104525.3	82.2%
2	Compost	6316	1477744.6	3.7%
3	Manufactured organic	85	17472.2	0.0%
4	Cow dung and compost	11760	3163623.0	7.9%
5	Cow dung and manufactured organic	51	13136.5	0.0%

File main97_field_new

#33 d22: Natural fertilizer type

Value	Label	Cases	Weighted	Percentage (Weighted)
6	Compost and manufactured organic	14	4792.5	0.0%
7	All	54	8111.7	0.0%
8	Others	8663	1874833.3	4.7%
9	Not stated	2846	612064.1	1.5%
Sysmiss		438363	97712164.8	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#34 apercent: Percent of field in use

Information	[Type= continuous] [Format=numeric] [Range= 0-100] [Missing=*]
Statistics [NW/ W]	[Valid=611352 / 137764096.3] [Invalid=1333 / 230195.67]
Literal question	Percentage share of crop area

Frequency table not shown (100 Modalities)

#35 aday: Area measure - day

Information	[Type= continuous] [Format=numeric] [Range= 1-99] [Missing=*/99]
Statistics [NW/ W]	[Valid=596899 / 134541535.35] [Invalid=15786 / 3452756.62] [Mean=13.606 / 13.664] [StdDev=8.244 / 8.212]
Literal question	Area measurement day

#36 amonth: Area measure - month

Information	[Type= continuous] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=603813 / 135975381.59] [Invalid=8872 / 2018910.38]
Literal question	Area measurement month

Value	Label	Cases	Weighted	Percentage (Weighted)
1	Meskerem	294124	65450366.1	48.1%
2	Tikimt	272975	61381675.5	45.1%
3	Hidar	26131	6845544.5	5.0%
4	Tahsas	336	84503.4	0.1%
5	Tir	233	53166.9	0.0%
6	Yekatit	160	36733.9	0.0%
7	Megabit	168	37192.9	0.0%
8	Miazia	124	23677.6	0.0%
9	Ginbot	91	20052.6	0.0%
10	Sene	164	37732.9	0.0%
11	Hamle	111	26516.5	0.0%
12	Nehase	200	47406.3	0.0%
13	Pagume	2055	473150.1	0.3%
99	Not stated	6859	1445207.4	1.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#37 anotmeas: Reason for not measuring area

Information	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
Statistics [NW/ W]	[Valid=4231 / 923216.46] [Invalid=608454 / 137071075.51]
Literal question	If no area measurement,reason

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#37 anotmeas: Reason for not measuring area

Value	Label	Cases	Weighted	Percentage (Weighted)
0		87	24756.3	2.7%
1	Not in FA (Farmers' association)	3447	742832.1	80.5%
2	Can't read bearing	462	100065.6	10.8%
3	Holder refused	24	5724.4	0.6%
4	Other	142	33898.1	3.7%
5	Measured	10	1866.4	0.2%
6		11	2853.2	0.3%
7		15	4442.4	0.5%
8		14	3453.4	0.4%
9		19	3324.5	0.4%
Sysmiss		608454	137071075.5	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#38 enumarea: Enumerator area (SQ. M)

Information	[Type= continuous] [Format=numeric] [Range= 0-99999.99] [Missing=*/99999.99]
Statistics [NW/ W]	[Valid=598944 / 135115591.44] [Invalid=13741 / 2878700.53] [Mean=938.288 / 978.35] [StdDev=1881.522 / 1840.642]
Literal question	Area in square meters

#39 comparea: Computer area (SQ. M)

Information	[Type= continuous] [Format=numeric] [Range= 0-96279.57] [Missing=*]
Statistics [NW/ W]	[Valid=591887 / 133517413.13] [Invalid=20798 / 4476878.84] [Mean=928.343 / 969.961] [StdDev=1832.31 / 1808.95]
Literal question	Area computed using computers by taking
Recoding and Derivation	Computed area from the bearing and distance readings

#40 areah: Area in hectar

Information	[Type= continuous] [Format=numeric] [Range= 0-9.999999] [Missing=*]
Statistics [NW/ W]	[Valid=611867 / 137886562.76] [Invalid=818 / 107729.21] [Mean=0.0946 / 0.0985] [StdDev=0.184 / 0.181]
Literal question	Area in hectar (used in the report)
Recoding and Derivation	Area converted to hectares

#41 area: Area in (SQ. M)

Information	[Type= continuous] [Format=numeric] [Range= 0-99999.99] [Missing=*/99999.99]
Statistics [NW/ W]	[Valid=611866 / 137886496.09] [Invalid=819 / 107795.88] [Mean=946.304 / 985.134] [StdDev=1840.25 / 1811.608]
Literal question	Area in (SQ. M)
Recoding and Derivation	Area in square meters

#42 prodq: Production in quintal

Information	[Type= continuous] [Format=numeric] [Range= 0-4445.9631] [Missing=*]
Statistics [NW/ W]	[Valid=407631 / 94358045.79] [Invalid=205054 / 43636246.18] [Mean=14.812 / 15.47] [StdDev=31.342 / 28.993]
Literal question	Production in quintal (used in the report)
Recoding and Derivation	Calculated production (in Quintals)obtained by multiplying the area of the particular field of the specific crop by the average yield obtained from the crop cutting measurement

File main97_field_new

#43 prod: Dry weight production (KG)

Information	[Type= continuous] [Format=numeric] [Range= 0-44459.631] [Missing=*]
Statistics [NW/ W]	[Valid=407631 /-] [Invalid=205054 /-] [Mean=148.121 /-] [StdDev=313.423 /-]
Literal question	Dry weight (from 4 X 4 sampled field)

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