Ethiopia

Central Statistical Agency, Ministry of Finance and Economic Development

Agricultural Sample Survey 2003-2004 (1996 E.C)

Study Documentation

December 28, 2010

Metadata Production

Metadata Producer(s)	Central Statistical Agency (CSA) , Ministry of Finance and Economic Development , Production and documentation of the study International Household Survey Network (IHSN) , Review of the metadata
Production Date	July 26, 2005
Version	Version 1.1: Edited on December 2010
Identification	DDI-ETH-CSA-AgSS-2003-v1.1

Table of Contents

Ethiopia (2003-2004)
Agricultural Sample Survey 2003-2004 (1996 E.C) (AgSS 2003-2004)

Overview

Type	Agricultural Survey [ag/oth]
Identification	ETH-CSA-AgSS-2003-v1.1
Version	Version 1.1: Edited and non anonymized dataset, for internal use only.

Abstract

Food security has become a burring issue in Ethiopia since it is an absolute prerequisite for political and social stability. It received national prominence in the aftermath of the recurring drought and famine and obviously became an immediate domestic policy concern. The gap between the dire need for food supply is compounded by rapidly increasing population, depletion of natural resources and the existing traditional way of farming. It even requires sacrifice to provide adequate supply of food in such a situation where natural and human factors have negatively impacted in the agricultural production and resulted in recurrent droughts and sometimes in catastrophe. Pressed by these problems and other economic factors, the Ethiopian government has centered its agricultural policy on ensuring food security by allocating more resources to increase agricultural production so as to ward off food shortage and ensure continuous adequate supply of food. To monitor and evaluate the performance of the policy and the trends in the charging patterns in agricultural, statistical information on agriculture is required as an input since agriculture is a primary activity connected with food availability. The Central Statistical Agency (CSA) has been generating statistical information used as inputs in the formulation of agricultural policies by collecting processing and summarizing reliable, comprehensive and timely data on the country's agriculture. As part of this mission the 2003-2004 (1996 E.C) Annual Agricultural Sample Survey was conducted to furnish data on cropland area and production of crops within the private peasant holdings for Main ("Meher") season of the quoted year.

The general objective of CSA's annual 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 survey is composed of four components: Crop production forecast survey. Main ("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.
- 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 agricultural practices.
- Information about other land use type and area and other agricultural related questions
- 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 2003-2004 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.

Note: The crop cutting exercise part of the survey from November 2003 up to January 2004 was not done in Gambela regional state, therefore no production estimates for the region was computed for Meher (main) season.

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 11th - 25th households selected).

The sample size for the 2003-04 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.

Note: Distribution of sampling units (planned and covered EAs) by stratum is presented in Appendix III of 2003-2004 Agricultural Sample Survey, Volume I report which is provided as external resource.

Response Rate

A total of 2,072 enumeration areas were initially selected to be covered by the survey, however, due to various reasons 16 EA's were not covered and the survey was successfully carried out in 2,056 (99.23 %) EAs. As regards the ultimate sampling unit, it was planned to conduct the survey on 51,800 agricultural households and 51,300 (99.03 %) households were actually covered by the Meher season Agricultural Sample Survey.

Data Collection

Data Collection Dates	start 2003-09 end 2004-02
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 2154 enumerators, 442 field supervisors and 21 coordinators 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 195 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 2003/04 (1996 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 areas of crop fields and other fields used 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 2003-2004 annual Agricultural Sample Survey used structured questionnaires to collect agricultural information from selected sample households.
List of forms in the questionnaires:
- AgSS Form 96/0: Used to list all households and agricultural holders in the sample enumeration areas.
- AgSS Form 96/1: Used to list selected households and agricultural holders in the sample enumeration areas.
- AgSS Form 96/3A: Used to list fields under temporary crops and farm management practice.
- AgSS Form 96/3B: Used to list fields under permanent crops and farm management practice.
- AgSS Form 96/3C: Used to list fields under mixed crops and farm management practice.
- AgSS Form 96/3D: Used to collect information about other land use type and area and other agricultural related questions.
- AgSS Form 96/5: Used to list temporary crop fields for selecting crop fields for crop cutting.
- AgSS Form 96/6: Used to collect information about temporary crop cutting results.

Note: The questionnaires are presented in the Appendix IV of the 2003-2004 Agricultural Sample Survey, Volume I report 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, and verification. An editing, coding and verification instruction manual was perpared and reproduced. Then 65 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 1OO % basis before the questioners were passed over to the data entry unit. The editlng, coding and verification exercise of all questionnaires took 40 days.

Data Entry, Cleaning and Tabulation:
Before data entry, the Natural resource 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 specification prepared earlier for this purpose. The data entry operation involved about 64 data encoders and it took 50 days to finsh the job. Finally, tabulation 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 2003-2004 Agricultural Sample Survey, Volume I report which is provided as external resource.

Other Forms of Data Appraisal

As it was explained in the response rate under sampling section, the non response rate was minimal. There is no testing for bias made in this survey.

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 2003-2004) "

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) 2003, Central Statistical Agency of Ethiopia

Files Description

Dataset contains 1 file(s)

main2004	
# Cases	509050
# Variable(s)	57

File Content
Holder Information, including holders age, sex, educational status etc

Producer
Central Statistical Agency (CSA)

Version
version 1.0 edited/final

Processing Checks
Editing Coding and verification

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Missing Data
The missing data values are indicated by **"*"**

Variables List

Dataset contains 57 variable(s)

File main2004

#	Name	Label	Type	Format	Valid	Invalid	Question
1	reg	Region	continuous	numeric-2.0	509050	0	Region
2	zone	Zone	continuous	numeric-2.0	509050	0	Zone
3	dist	District	continuous	numeric-2.0	509050	0	District
4	fa	Farmers Association	continuous	numeric-3.0	509050	0	Farmers Association
5	ea	Enumeration Area	continuous	numeric-2.0	509050	0	Enumeration Area
6	hh	Household Id	continuous	numeric-3.0	509050	0	Household Id
7	pweight	Pesons Weight	continuous	numeric-7.2	509050	0	Pesons Weight
8	hhsize	Household Size	continuous	numeric-2.0	508514	536	Household Size
9	pratio	Person Ratio	continuous	numeric-9.7	509050	0	Person Ratio
10	hid	Holder id	continuous	numeric-1.0	509050	0	Holder id
11	hweight	Holder Weight	continuous	numeric-7.2	509050	0	Holder Weight
12	v09	Age	continuous	numeric-2.0	508707	343	Age
13	v10	Sex	continuous	numeric-1.0	509029	21	Sex
14	v11	Education (Highest Grade)	continuous	numeric-2.0	508613	437	Education (Highest Grade)
15	v12	Household Size	continuous	numeric-2.0	508470	580	Household Size
16	v13	Type	continuous	numeric-1.0	509021	29	Type
17	hratio	Holder Ratio	continuous	numeric-9.7	0	509050	Holder Ratio
18	parcel	Parcel	continuous	numeric-2.0	509050	0	Parcel
19	fld	Field	continuous	numeric-2.0	509050	0	Field
20	fweight	Field Weight	continuous	numeric-7.2	457210	51840	Field Weight
21	part	Field Part	continuous	numeric-1.0	457210	51840	Field Part
22	crop	Crop or Land Use	continuous	numeric-3.0	457210	51840	Crop or Land Use
23	owntype	Owner Type	continuous	numeric-1.0	457210	51840	Owner Type
24	ext	Extension	continuous	numeric-1.0	322895	186155	Extension
25	trees	Number of Trees	continuous	numeric-6.0	63930	445120	Number of Trees
26	treesba	Number of Trees of Bearing Age	continuous	numeric-6.0	63930	445120	Number of Trees of Bearing Age
27	irrg	Irrigation Used	continuous	numeric-1.0	322895	186155	Irrigation Used
28	seedtype	Seed Type	continuous	numeric-1.0	322895	186155	Seed Type
29	wtniseed	Weight of Non-improved Seed	continuous	numeric-8.3	273068	235982	Weight of Non-improved Seed
30	wtimseed	Weight of Improved Seed	continuous	numeric-8.3	6333	502717	Weight of Improved Seed
31	costimps	Improved Seed Cost	continuous	numeric-9.2	6333	502717	Improved Seed Cost
32	damage	Any Damage	continuous	numeric-1.0	322895	186155	Any Damage
33	dreason	Damage Reason	continuous	numeric-2.0	104321	404729	Damage Reason
34	dpercent	Damage Percent	continuous	numeric-3.0	104321	404729	Damage Percent

File main2004

#	Name	Label	Type	Format	Valid	Invalid	Question
35	dmeasure	Any Measure to Prevent Damage	continuous	numeric-1.0	322895	186155	Any Measure to Prevent Damage
36	dmtype	Type of Damage Prevention	continuous	numeric-1.0	302806	206244	Type of Damage Prevention
37	dmchem	Chemical Used	continuous	numeric-1.0	6349	502701	Chemical Used
38	fert	Fertilizer Used	continuous	numeric-1.0	322895	186155	Fertilizer Used
39	ferttype	Fertilizer Type	continuous	numeric-1.0	145217	363833	Fertilizer Type
40	fertnotu	Reason for Not User Fertilizer	continuous	numeric-1.0	177678	331372	Reason for Not User Fertilizer
41	chemtype	Chemical Fertilizer Type	continuous	numeric-1.0	43995	465055	Chemical Fertilizer Type
42	chemquan	Chemical Fertilizer Amount	continuous	numeric-8.2	43995	465055	Chemical Fertilizer Amount
43	natutyp	Natural Fertilizer Type	continuous	numeric-1.0	106029	403021	Natural Fertilizer Type
44	apercent	Percent of Field in Use	continuous	numeric-3.0	457210	51840	Percent of Field in Use
45	aday	Area Measure - Day	continuous	numeric-2.0	457210	51840	Area Measure - Day
46	amonth	Area Measure - Month	continuous	numeric-2.0	457210	51840	Area Measure - Month
47	alocunit	Local Area Unit	continuous	numeric-2.0	376945	132105	Local Area Unit
48	alocarea	Local Area Amount	continuous	numeric-6.2	457210	51840	Local Area Amount
49	anotmeas	Reason for Not Measuring Area	continuous	numeric-2.0	457210	51840	Reason for Not Measuring Area
50	enumarea	Enumerator Area (sq. m.)	continuous	numeric-8.2	445522	63528	Enumerator Area (sq. m.)
51	comparea	Computer Area (sq. m.)	continuous	numeric-8.2	440921	68129	Computer Area (sq. m.)
52	areah	Area in Hectar	continuous	numeric-8.6	457192	51858	Area in Hectar
53	area	Area (sq. m.)	continuous	numeric-8.2	457192	51858	Area (sq. m.)
54	plunit	Production local unit	continuous	numeric-2.0	322882	186168	Production local unit
55	plocal	Production in local unit	continuous	numeric-8.0	0	509050	Production in local unit
56	prodq	Production in Quintal	continuous	numeric-10.4	289265	219785	Production in Quintal
57	prod	Dry Weight Production (kg.)	continuous	numeric-10.3	289265	219785	Dry Weight Production (kg.)

Variables Description

Dataset contains57 variable(s)

File main2004

#1 reg: Region	
Information	[Type= continuous] [Format=numeric] [Range= 1-15] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=4.951 /-] [StdDev=2.454 /-]
Literal question	Region
#2 zone: Zone	
Information	[Type= continuous] [Format=numeric] [Range= 1-21] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=6.956 /-] [StdDev=5.194 /-]
Literal question	Zone
#3 dist: District	
Information	[Type= continuous] [Format=numeric] [Range= 1-35] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=6.809 /-] [StdDev=6.203 /-]
Literal question	District
#4 fa: Farmers Association	
Information	[Type= continuous] [Format=numeric] [Range= 1-126] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=27.244 /-] [StdDev=21.703 /-]
Literal question	Farmers Association
#5 ea: Enumeration Area	
Information	[Type= continuous] [Format=numeric] [Range= 1-12] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=1.962 /-] [StdDev=1.279 /-]
Literal question	Enumeration Area
#6 hh: Household Id	
Information	[Type= continuous] [Format=numeric] [Range= 1-992] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=110.235 /-] [StdDev=81.069 /-]
Literal question	Household Id
#7 pweight: Pesons Weight	
Information	[Type= continuous] [Format=numeric] [Range= 1.72-673.94] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=220.27 /-] [StdDev=136.09 /-]
Literal question	Pesons Weight
#8 hhsize: Household Size	
Information	[Type= continuous] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=508514 /-] [Invalid=536 /-] [Mean=5.527 /-] [StdDev=2.451 /-]
Literal question	Household Size
#9 pratio: Person Ratio	
Information	[Type= continuous] [Format=numeric] [Range= 0.0063648-1] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=0.102 /-] [StdDev=0.154 /-]
Literal question	Person Ratio

File main2004

#10 hid: Holder id

Information	[Type= continuous] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=1.015 /-] [StdDev=0.137 /-]
Literal question	Holder id

#11 hweight: Holder Weight

Information	[Type= continuous] [Format=numeric] [Range= 1.72-673.94] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=220.27 /-] [StdDev=136.09 /-]
Literal question	Holder Weight

#12 v09: Age

Information	[Type= continuous] [Format=numeric] [Range= 1-98] [Missing=*/99]
Statistics [NW/ W]	[Valid=508707 /-] [Invalid=343 /-] [Mean=43.527 /-] [StdDev=15.385 /-]
Literal question	Age

#13 v10: Sex

Information	[Type= continuous] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=509029 /-] [Invalid=21 /-]
Literal question	Sex

Value	Label	Cases	Percentage
1	Male	430158	84.5%
2	Female	78871	15.5%

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.

#14 v11: Education (Highest Grade)

Information	[Type= continuous] [Format=numeric] [Range= 0-81] [Missing=*/99]
Statistics [NW/ W]	[Valid=508613 /-] [Invalid=437 /-] [Mean=2.405 /-] [StdDev=2.752 /-]
Literal question	Education (Highest Grade)

#15 v12: Household Size

Information	[Type= continuous] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=508470 /-] [Invalid=580 /-] [Mean=5.523 /-] [StdDev=2.43 /-]
Literal question	Household Size

#16 v13: Type

Information	[Type= continuous] [Format=numeric] [Range= 1-4] [Missing=*/9]
Statistics [NW/ W]	[Valid=509021 /-] [Invalid=29 /-]
Literal question	Type

Value	Label	Cases	Percentage
1	Never Mariied	47716	9.4%
2	Married	5837	1.1%
3	Divorced	455468	89.5%
4	Widowed	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.

#17 hratio: Holder Ratio

Information	[Type= continuous] [Format=numeric] [Missing=*]

File main2004

#17 hratio: Holder Ratio

Statistics [NW/ W]	[Valid=0 /-] [Invalid=509050 /-]
Literal question	Holder Ratio

#18 parcel: Parcel

Information	[Type= continuous] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=11.876 /-] [StdDev=29.383 /-]
Literal question	Parcel

#19 fld: Field

Information	[Type= continuous] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=509050 /-] [Invalid=0 /-] [Mean=13.57 /-] [StdDev=29.014 /-]
Literal question	Field

#20 fweight: Field Weight

Information	[Type= continuous] [Format=numeric] [Range= 1.72-673.94] [Missing=*]
Statistics [NW/ W]	[Valid=457210 /-] [Invalid=51840 /-] [Mean=221.514 /-] [StdDev=135.686 /-]
Literal question	Field Weight

#21 part: Field Part

Information	[Type= continuous] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=457210 /-] [Invalid=51840 /-]
Literal question	Field Part

Value	Label	Cases	Percentage
1		457210	100.0%
2		0	0.0%
3		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.

#22 crop: Crop or Land Use

Information	[Type= continuous] [Format=numeric] [Range= 1-120] [Missing=*]
Statistics [NW/ W]	[Valid=457210 /-] [Invalid=51840 /-] [Mean=45.344 /-] [StdDev=36.397 /-]
Literal question	Crop or Land Use

#23 owntype: Owner Type

Information	[Type= continuous] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=457210 /-] [Invalid=51840 /-]
Literal question	Owner Type

Value	Label	Cases	Percentage
1	Private	416160	91.0%
2	Rent/leased	26901	5.9%
3	Other	14149	3.1%

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.

#24 ext: Extension

Information	[Type= continuous] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=322895 /-] [Invalid=186155 /-]

File main2004

#24 ext: Extension

Literal question	Extension

Value	Label	Cases	Percentage
1	Yes	26238	8.1%
2	No	296657	91.9%

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 trees: Number of Trees

Information	[Type= continuous] [Format=numeric] [Range= 0-99999] [Missing=*]
Statistics [NW/ W]	[Valid=63930 /-] [Invalid=445120 /-] [StdDev=49114.206 /-]
Literal question	Number of Trees

Value	Label	Cases	Percentage
99999	Not Stated	26306	100.0%

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.

#26 treesba: Number of Trees of Bearing Age

Information	[Type= continuous] [Format=numeric] [Range= 0-99999] [Missing=*]
Statistics [NW/ W]	[Valid=63930 /-] [Invalid=445120 /-]
Literal question	Number of Trees of Bearing Age

Value	Label	Cases	Percentage
99999	Not Stated	26306	100.0%

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 irrg: Irrigation Used

Information	[Type= continuous] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=322895 /-] [Invalid=186155 /-]
Literal question	Irrigation Used

Value	Label	Cases	Percentage
1	Yes	9885	3.1%
2	No	313010	96.9%

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.

#28 seedtype: Seed Type

Information	[Type= continuous] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=322895 /-] [Invalid=186155 /-]
Literal question	Seed Type

Value	Label	Cases	Percentage
1	Improved	6877	2.1%
2	Non-improved	316018	97.9%

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.

#29 wtniseed: Weight of Non-improved Seed

Information	[Type= continuous] [Format=numeric] [Range= 0.002-9999.999] [Missing=*]
Statistics [NW/ W]	[Valid=273068 /-] [Invalid=235982 /-]
Literal question	Weight of Non-improved Seed

File main2004

#29 wtniseed: Weight of Non-improved Seed

Value	Label	Cases	Percentage
9999.999	Not stated	74787	100.0%

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.

#30 wtimseed: Weight of Improved Seed

Information	[Type= continuous] [Format=numeric] [Range= 0.002-9999.999] [Missing=*]
Statistics [NW/ W]	[Valid=6333 /-] [Invalid=502717 /-]
Literal question	Weight of Improved Seed

Value	Label	Cases	Percentage
9999.999	Not stated	1178	100.0%

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.

#31 costimps: Improved Seed Cost

Information	[Type= continuous] [Format=numeric] [Range= 0.1-99999.99] [Missing=*]
Statistics [NW/ W]	[Valid=6333 /-] [Invalid=502717 /-]
Literal question	Improved Seed Cost

Value	Label	Cases	Percentage
99999.99	Not stated	1549	100.0%

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.

#32 damage: Any Damage

Information	[Type= continuous] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=322895 /-] [Invalid=186155 /-]
Literal question	Any Damage

Value	Label	Cases	Percentage
1	Yes	104321	32.3%
2	No	218574	67.7%

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.

#33 dreason: Damage Reason

Information	[Type= continuous] [Format=numeric] [Range= 1-89] [Missing=*]
Statistics [NW/ W]	[Valid=104321 /-] [Invalid=404729 /-]
Literal question	Damage Reason

Value	Label	Cases	Percentage
1	Too much rain	18029	17.3%
2	Too little rain	5483	5.3%
3	Insects	231	0.2%
4	Crop disease	18907	18.1%
5	Weeds	24773	23.7%
6	Hail	7960	7.6%
7	Frost	5463	5.2%
8	Floods	719	0.7%
9	Wild animals	6753	6.5%
10	Locust	15931	15.3%
11	Birds	3	0.0%

File main2004

#33 dreason: Damage Reason

Value	Label	Cases	Percentage
12	Shortage of seeds	8	0.0%
13	Depletion of soil fertility	21	0.0%
14	Security problems	3	0.0%
15	Other	33	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.

#34 dpercent: Damage Percent

Information	[Type= continuous] [Format=numeric] [Range= 0-999] [Missing=*]
Statistics [NW/ W]	[Valid=104321 /-] [Invalid=404729 /-]
Literal question	Damage Percent

Frequency table not shown (79 Modalities)

#35 dmeasure: Any Measure to Prevent Damage

Information	[Type= continuous] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=322895 /-] [Invalid=186155 /-]
Literal question	Any Measure to Prevent Damage

Value	Label	Cases	Percentage
1	Yes	302806	93.8%
2	No	20089	6.2%

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.

#36 dmtype: Type of Damage Prevention

Information	[Type= continuous] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=302806 /-] [Invalid=206244 /-]
Literal question	Type of Damage Prevention

Value	Label	Cases	Percentage
1	Chemical	6349	2.1%
2	Non-chemical	290186	95.8%
3	Both	6271	2.1%

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 dmchem: Chemical Used

Information	[Type= continuous] [Format=numeric] [Range= 1-9] [Missing=*]
Statistics [NW/ W]	[Valid=6349 /-] [Invalid=502701 /-]
Literal question	Chemical Used

Value	Label	Cases	Percentage
1	Insecticide	713	11.2%
2	Herbicide	5222	82.2%
3	Fungicide	106	1.7%
4	Insectcide & Herbicide	64	1.0%
5	Insectcide & Fungicide	10	0.2%
6	Herbicide & Fungicide	6	0.1%
7	All	0	0.0%
9	Not stated	228	3.6%

File main2004

#37 dmchem: Chemical Used

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 fert: Fertilizer Used

Information	[Type= continuous] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=322895 /-] [Invalid=186155 /-]
Literal question	Fertilizer Used

Value	Label	Cases	Percentage
1	Yes	145217	45.0%
2	No	177678	55.0%

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.

#39 ferttype: Fertilizer Type

Information	[Type= continuous] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=145217 /-] [Invalid=363833 /-]
Literal question	Fertilizer Type

Value	Label	Cases	Percentage
1	Natural	101222	69.7%
2	Chemical	39188	27.0%
3	Both	4807	3.3%

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.

#40 fertnotu: Reason for Not User Fertilizer

Information	[Type= continuous] [Format=numeric] [Range= 1-9] [Missing=*]
Statistics [NW/ W]	[Valid=177678 /-] [Invalid=331372 /-]
Literal question	Reason for Not User Fertilizer

Value	Label	Cases	Percentage
1	Not aware	14656	8.2%
2	Too expensive	12644	7.1%
3	No money	90718	51.1%
4	Not available	14911	8.4%
5	No credit	627	0.4%
6	Not good	6135	3.5%
7	Others	37985	21.4%

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.

#41 chemtype: Chemical Fertilizer Type

Information	[Type= continuous] [Format=numeric] [Range= 1-9] [Missing=*]
Statistics [NW/ W]	[Valid=43995 /-] [Invalid=465055 /-]
Literal question	Chemical Fertilizer Type

Value	Label	Cases	Percentage
1	Urea	4398	10.0%
2	DAP	17035	38.7%
3	Both	21474	48.8%
9	Not stated	1088	2.5%

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.

File main2004

#42 chemquan: Chemical Fertilizer Amount

Information	[Type= continuous] [Format=numeric] [Range= 0.1-99999.99] [Missing=*]
Statistics [NW/ W]	[Valid=43995 /-] [Invalid=465055 /-]
Literal question	Chemical Fertilizer Amount

Value	Label	Cases	Percentage
99999.99	Not stated	1010	100.0%

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.

#43 natutyp: Natural Fertilizer Type

Information	[Type= continuous] [Format=numeric] [Range= 1-9] [Missing=*]
Statistics [NW/ W]	[Valid=106029 /-] [Invalid=403021 /-]
Literal question	Natural Fertilizer Type

Value	Label	Cases	Percentage
1	Manure	87935	82.9%
2	Humese/besebash	3150	3.0%
3	Both	8319	7.8%
4	Others	5322	5.0%
9	Not stated	1303	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.

#44 apercent: Percent of Field in Use

Information	[Type= continuous] [Format=numeric] [Range= 0-100] [Missing=*]
Statistics [NW/ W]	[Valid=457210 /-] [Invalid=51840 /-]
Literal question	Percent of Field in Use

Value	Label	Cases	Percentage
0	Land use only	134315	34.2%
100	Single crop	258580	65.8%

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.

#45 aday: Area Measure - Day

Information	[Type= continuous] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=457210 /-] [Invalid=51840 /-]
Literal question	Area Measure - Day

Value	Label	Cases	Percentage
99	Not stated	8557	100.0%

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.

#46 amonth: Area Measure - Month

Information	[Type= continuous] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=457210 /-] [Invalid=51840 /-]
Literal question	Area Measure - Month

Value	Label	Cases	Percentage
1	Meskerem	219278	48.0%
2	Tikimt	187780	41.1%
3	Hidar	34951	7.6%

File main2004

#46 amonth: Area Measure - Month

Value	Label	Cases	Percentage
4	Tahsas	4078	0.9%
5	Tir	184	0.0%
6	Yekatit	125	0.0%
7	Megabit	114	0.0%
8	Miazia	103	0.0%
9	Ginbot	82	0.0%
10	Sene	77	0.0%
11	Hamle	69	0.0%
12	Nehase	115	0.0%
13	Pagume	1186	0.3%
99	Not stated	9063	2.0%

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.

#47 alocunit: Local Area Unit

Information	[Type= continuous] [Format=numeric] [Range= 0-99] [Missing=*]
Statistics [NW/ W]	[Valid=376945 /-] [Invalid=132105 /-]
Literal question	Local Area Unit

Value	Label	Cases	Percentage
99	Not stated	932	100.0%

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.

#48 alocarea: Local Area Amount

Information	[Type= continuous] [Format=numeric] [Range= 0.01-999.99] [Missing=*]
Statistics [NW/ W]	[Valid=457210 /-] [Invalid=51840 /-]
Literal question	Local Area Amount

Value	Label	Cases	Percentage
999.99	Not stated	15491	100.0%

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.

#49 anotmeas: Reason for Not Measuring Area

Information	[Type= continuous] [Format=numeric] [Range= 1-5] [Missing=*]
Statistics [NW/ W]	[Valid=457210 /-] [Invalid=51840 /-]
Literal question	Reason for Not Measuring Area

Value	Label	Cases	Percentage
1	Not in FA	9132	2.0%
2	Can't read bearing	1649	0.4%
3	Holder refused	0	0.0%
4	Other	387	0.1%
5	Measured	446042	97.6%

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.

#50 enumarea: Enumerator Area (sq. m.)

Information	[Type= continuous] [Format=numeric] [Range= 0-99999.99] [Missing=*]
Statistics [NW/ W]	[Valid=445522 /-] [Invalid=63528 /-]

File main2004

#50 enumarea: Enumerator Area (sq. m.)

Literal question	Enumerator Area (sq. m.)

Value	Label	Cases	Percentage
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.

#51 comparea: Computer Area (sq. m.)

Information	[Type= continuous] [Format=numeric] [Range= 0-88968.25] [Missing=*]
Statistics [NW/ W]	[Valid=440921 /-] [Invalid=68129 /-]
Literal question	Computer Area (sq. m.)

Value	Label	Cases	Percentage
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.

#52 areah: Area in Hectar

Information	[Type= continuous] [Format=numeric] [Range= 1.4e-05-8.896824] [Missing=*]
Statistics [NW/ W]	[Valid=457192 /-] [Invalid=51858 /-] [Mean=0.115 /-] [StdDev=0.203 /-]
Literal question	Area in Hectar

#53 area: Area (sq. m.)

Information	[Type= continuous] [Format=numeric] [Range= 0-88968.24] [Missing=*]
Statistics [NW/ W]	[Valid=457192 /-] [Invalid=51858 /-]
Literal question	Area (sq. m.)

Value	Label	Cases	Percentage
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.

#54 plunit: Production local unit

Information	[Type= continuous] [Format=numeric] [Range= 0-99] [Missing=*]
Statistics [NW/ W]	[Valid=322882 /-] [Invalid=186168 /-] [Mean=32.16 /-] [StdDev=28.846 /-]
Literal question	Production local unit

#55 plocal: Production in local unit

Information	[Type= continuous] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=509050 /-]
Literal question	Production in local unit

#56 prodq: Production in Quintal

Information	[Type= continuous] [Format=numeric] [Range= 0-2330.1201] [Missing=*]
Statistics [NW/ W]	[Valid=289265 /-] [Invalid=219785 /-] [Mean=18.238 /-] [StdDev=36.904 /-]
Literal question	Production in Quintal

#57 prod: Dry Weight Production (kg.)

Information	[Type= continuous] [Format=numeric] [Range= 0-23301.201] [Missing=*]
Statistics [NW/ W]	[Valid=289265 /-] [Invalid=219785 /-] [Mean=182.384 /-] [StdDev=369.041 /-]
Literal question	Dry Weight Production (kg.)

Documentation

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