**Ethiopia**

**Central Statistical Agency, Ministry of Finance and Economic Development**

# Agricultural Sample Survey 2010-2011 (2003 E.C)

## Study Documentation

May 20, 2011

# Metadata Production

| | |
|---|---|
| **Metadata Producer(s)** | Central Statistical Agency (CSA) , Ministry of Finance and Economic Development , Production and documentation of the study |
| **Production Date** | April 25, 2011 |
| **Version** | Version 1.0 |
| **Identification** | DDI-ETH-CSA-AgSS-2010-v1.0 |

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# Ethiopia (2010-2011)
# Agricultural Sample Survey 2010-2011 (2003 E.C) (AgSS 2010-2011)

## Overview

| | |
|---|---|
| **Type** | Agricultural Survey [ag/oth] |
| **Identification** | ETH-CSA-AgSS-2010-v1.0 |
| **Version** | Version 1.0: Edited and non anonymized dataset, for internal use only. |

**Abstract**

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 Post Harvest Survey (Area and production, land use, farm management and crop utilization), Livestock Survey and Belg Season Survey.

The specific objectives of Meher Season Post Harvest Survey are to estimate the total crop area, volume of crop production and yield of crops for Meher Season agriculture in Ethiopia. The report is based on private peasant holdings in rural sedentary areas of the country and part of companion reports on the performance of agriculture in the country. The report is compiled at regional and zonal level.

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

## Scope & Coverage

**Scope**

The scope of annual Agricultural Sample Survey included:
- 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.

The range of data items that the 2010/11 (2003 E.C.) Annual Agricultural Sample Survey (Meher Season) dealt with includes all cereals, pulses and oilseeds and the most commonly grown vegetables, root crops and permanent (perennial) crops. Holders growing at least one or more of these and / or other crops are enumerated and data on crop area and yield condition recorded, hence data on production of these crops acquired.

The 2010/11 (2003 E.C.) Annual Agricultural Sample Survey (Meher season) covered the entire rural parts of the country except the non-sedentary population of three zones of Afar & six zones of Somali regions.

**Geographic Coverage**

The 2010/11 (2003 E.C.) Annual Agricultural Sample Survey (Meher season) covered the entire rural parts of the country except the non-sedentary population of three zones of Afar & six zones of Somali regions.

To be covered by the survey, a total of 2,280 Enumeration Areas (EAs) were selected. However, due to various reasons that are beyond control, in 25 EAs the survey could not be successful and hence interrupted. Thus, all in all the survey succeeded to cover 2,236 EAs (98.5 %) throughout the regions. The Annual Agricultural Sample survey (Meher season) was conducted on the basis of 20 agricultural households selected from each

EA. Regarding the ultimate sampling units, it was intended to cover a total of 45,600 agricultural households, however, 44,871 (98.3 %) were actually covered by the survey.

**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 households obtained from the 1999 E.C cartographic census frame was used as the sampling frame in order to select the primary sampling units (EAs). Consequently, all sample EAs were selected from this frame based on the design proposed for the survey. The second stage sampling units, households, were selected from a fresh list of households that were prepared for each EA at the beginning of the survey.

SAMPLE DESIGN
In order to select the sample a stratified two-stage cluster sample design was implemented. Enumeration areas (EAs) were taken to be the primary sampling units (PSUs) and the secondary sampling units (SSUs) were agricultural households. The sample size for the 2010/11 agricultural sample survey was determined by taking into account of both the required level of precision for the most important estimates within each domain and the amount of resources allocated to the survey. In order to reduce non-sampling errors, manageability of the survey in terms of quality and operational control was also considered.
All regions were taken to be the domain of estimation for which major findings of the survey are reported.

SELECTION SCHEME
Enumeration areas from each stratum were selected systematically using probability proportional to size sampling technique; size being number of agricultural households. The sizes for EAs were obtained from the 2007 E.C Population and Housing census frame. From the fresh list of households prepared at the beginning of the survey 20 agricultural households within each sample EA were selected systematically.

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

**Response Rate**
A total of 2,280 Enumeration Areas (EAs) were selected. However, due to various reasons that are beyond control, in 25 EAs the survey could not be successful and hence interrupted. Thus, all in all the survey succeeded to cover 2,236 EAs (98.5 %) throughout the regions. The Annual Agricultural Sample survey (Meher season) was conducted on the basis of 20 agricultural households selected from each EA. Regarding the ultimate sampling units, it was intended to cover a total of 45,600 agricultural households, however, 44,871 (98.3 %) were actually covered by the survey.

## Data Collection

| | |
|---|---|
| **Data Collection Dates** | start 2010<br>end 2011 |

| | |
|---|---|
| **Data Collection Mode** | Face-to-face [f2f] |

**Data Collection Notes**

ORGANIZATION OF FIELD WORK

The conduct of a survey cannot be executed without the arrangement of fieldwork. In recognition of this, the organization of fieldwork has been entrusted to the Desks that liaises between the Head Office and the 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 for administering the financial and logistic aspects of the survey within their areas of operation. A total of 2,394 enumerators, 529 field supervisors and 66 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 194 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 are ensured when the training meets its objective of producing responsible and fervent enumerators and supervisors.

In light of this point, the training was given to the field staff in two stages. The first stage training, which took place at the Ambo University and lasted 7 days targeted staff from the Head Office, statisticians and senior field supervisors from Branch Statistical Offices. The staff that took part in the first stage training was then assigned to conduct similar training for the enumerators and other supervisors for 15 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, interviewing procedures, etc. The training also included field practice to reinforce the understanding of concepts, definitions and theories discussed in the classroom with regard to field measurement, crop cutting, GPS reading and interviewing methods.

METHOD OF DATA COLLECTION

The agricultural data for the year 2010/11 (2003 E.C.) was collected from sedentary rural peasant households by interviewing the selected agricultural holders and physically measuring their fields to obtain data on crop yields and other items of interest.

The data obtained were recorded in various forms designed for this purpose. Instruments like measuring tape; compass, kitchen balance, scientific calculators, GPS ( Oromiya region only) and others were used during data collection for a timely and smooth acquisition of accurate data. The procedures for measuring area under crop and area of non - crop fields operated by the holders were performed for the 30 selected households from each sampled E.A. using measuring tapes and compasses as well as GPS.

**Questionnaires**

The 2010-2011 annual Agricultural Sample Survey used structured questionnaires to collect agricultural information from selected sample households.
List of forms in the questionnaires:

- AgSS Form 2003/0: It contains forms that used to list all households in the sample areas.
- AgSS Form 2003/1: It contains forms that used to list selected agricultural households and holders in the sample areas.
- AgSS Form 2003/2A: It contains forms that used to collect information about crops, results of area measurements covered by crops and other land uses.
- AgSS Form 2003/2B: It contains forms that used to collect information about miscellaneous questions for the holders.
- AgSS Form 2003/4: It contains forms that used to collect information about list of temporary crop fields for selecting crop cutting plots.
- AgSS Form 2003/5: It contains forms that used to collect information about list of temporary crop cutting results.

| | |
|---|---|
| **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 66 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 18 days.

) Data Entry, Cleaning and Tabulation

Before data entry, the Agriculture, Natural Resources and Environment Statistics Directorate of the CSA 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 70 data encoders, 10 data encoder supervisors, 12 data cleaning operators and 55 personal computers. The data entered into the computers using the entry module of the CSPRO (Census and Survey Processing System) software, which is a software package developed by the United States Bureau of the Census. Following the data entry operations, the data was further reviewed for data inconsistencies, missing data … etc. by the regular professional staff from Agriculture, Natural Resources and Environment Statistics Directorate. The final stage of the data processing was to summarizing the cleaned data and produce statistical tables that present the results of the survey using the tabulation component of the PC based CSPRO software produced by professional staff from Agriculture, Natural Resources and Environment Statistics Directorate.

**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 respectively. Distribution of sampling units (sampled and covered EAs and households) by stratum is also presented in Appendix-III.

## 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) , 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 2010-2011) "

## 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) 2010, Central Statistical Agency of Ethiopia |

# Files Description

**Dataset contains 3 file(s)**

| Holder Information 2003 EC | |
|---|---|
| **# Cases** | 46773 |
| **# Variable(s)** | 15 |

| Field Information 2003 EC | |
|---|---|
| **# Cases** | 487246 |
| **# Variable(s)** | 42 |

| Mescellaneous | |
|---|---|
| **# Cases** | 46723 |
| **# Variable(s)** | 28 |

# Variables List

**Dataset contains 85 variable(s)**

## File Holder Information 2003 EC

| # | Name | Label | Type | Format | Valid | Invalid | Question |
|---|---|---|---|---|---|---|---|
| 1 | REG | Region | discrete | numeric-2.0 | 46773 | 0 | Region |
| 2 | ZONE | Zone | discrete | numeric-2.0 | 46773 | 0 | Zone |
| 3 | DIST | District | continuous | numeric-2.0 | 46773 | 0 | District |
| 4 | FA | Farmers Association | continuous | numeric-3.0 | 46773 | 0 | Farmers Association |
| 5 | EA | Enumeration Area | discrete | numeric-2.0 | 46773 | 0 | Enumeration Area |
| 6 | HH | Household Id | continuous | numeric-3.0 | 46773 | 0 | Household Id |
| 7 | HHSEX | Head sex | discrete | numeric-1.0 | 46773 | 0 | Head sex |
| 8 | HID | Holder id | discrete | numeric-1.0 | 46773 | 0 | Holder id |
| 9 | HWEIGHT | Sampling Weight | continuous | numeric-7.2 | 46773 | 0 | Sampling Weight |
| 10 | AGE | Age | continuous | numeric-2.0 | 46773 | 0 | Age |
| 11 | SEX | Sex | discrete | numeric-1.0 | 46773 | 0 | Sex |
| 12 | EDUC | Education (Highest Grade) | discrete | numeric-2.0 | 46664 | 109 | Education (Highest Grade) |
| 13 | V12 | Household Size | continuous | numeric-2.0 | 46773 | 0 | Household Size |
| 14 | HTYPE | Type of Holding | discrete | numeric-1.0 | 46773 | 0 | Type of Holding |
| 15 | HRATIO | Rate | continuous | numeric-9.7 | 46773 | 0 | - |

## File Field Information 2003 EC

| # | Name | Label | Type | Format | Valid | Invalid | Question |
|---|---|---|---|---|---|---|---|
| 1 | REG | Region | discrete | numeric-2.0 | 487246 | 0 | Region |
| 2 | ZONE | Zone | discrete | numeric-2.0 | 487246 | 0 | Zone |
| 3 | DIST | District | continuous | numeric-2.0 | 487246 | 0 | District |
| 4 | FA | Farmers Association | continuous | numeric-3.0 | 487246 | 0 | Farmers Association |
| 5 | EA | Enumeration Area | discrete | numeric-2.0 | 487246 | 0 | Enumeration Area |
| 6 | HH | Household Id | continuous | numeric-3.0 | 487246 | 0 | Household Id |
| 7 | HHSEX | Head sex | discrete | numeric-1.0 | 487246 | 0 | Head sex |
| 8 | HID | Holder id | discrete | numeric-1.0 | 487246 | 0 | Holder id |
| 9 | PARCEL | Parcel | continuous | numeric-2.0 | 487245 | 1 | Parcel |
| 10 | FLD | Field | continuous | numeric-2.0 | 487246 | 0 | Field |
| 11 | FWEIGHT | Sampling Weight | continuous | numeric-7.2 | 487246 | 0 | Sampling Weight |
| 12 | FLDTYPE | Field Type | discrete | numeric-1.0 | 487246 | 0 | Field Type |
| 13 | CROP | CROP | discrete | numeric-3.0 | 487246 | 0 | CROP |
| 14 | OWNTYPE | Ownership | discrete | numeric-1.0 | 487246 | 0 | Ownership |
| 15 | EXT | Is field under Extension Program? | discrete | numeric-1.0 | 365219 | 122027 | Is field under Extension Program? |
| 16 | IRRG | Is Field Irrigated? | discrete | numeric-1.0 | 365053 | 122193 | Is Field Irrigated? |

## File Field Information 2003 EC

| # | Name | Label | Type | Format | Valid | Invalid | Question |
|---|---|---|---|---|---|---|---|
| 17 | SIRRG | If Field Irrigated source of water | discrete | numeric-1.0 | 11793 | 475453 | If Field Irrigated source of water |
| 18 | SERRO | Is Field Prevented form Erosion | discrete | numeric-1.0 | 435120 | 52126 | Is Field Prevented form Erosion |
| 19 | MERRO | Common way of prevention | discrete | numeric-1.0 | 226666 | 260580 | Common way of prevention |
| 20 | TREES | Number of Fruit Trees | continuous | numeric-6.0 | 78732 | 408514 | Number of Fruit Trees |
| 21 | TREESBA | Number of Fruit Bearing Trees | continuous | numeric-5.0 | 76339 | 410907 | Number of Fruit Bearing Trees |
| 22 | SEEDTYPE | Seed / Seedling Type | discrete | numeric-1.0 | 364923 | 122323 | Seed / Seedling Type |
| 23 | WTIMSEED | Quantity of improved seeds used | discrete | numeric-8.3 | 8392 | 478854 | Quantity of improved seeds used |
| 24 | COSTIMPS | Price of improved seeds used | discrete | numeric-9.2 | 8386 | 478860 | Price of improved seeds used |
| 25 | WTNISEED | Quantity of indigenous seeds used | discrete | numeric-8.3 | 295030 | 192216 | Quantity of indigenous seeds used |
| 26 | DAMAGE | Was crop damaged? | discrete | numeric-1.0 | 364449 | 122797 | Was crop damaged? |
| 27 | DREASON | If yes, cause of damage | discrete | numeric-2.0 | 103345 | 383901 | If yes, cause of damage |
| 28 | DPERCENT | Percent of damaged crop | discrete | numeric-3.0 | 103459 | 383787 | Percent of damaged crop |
| 29 | DMEASURE | Prevension/precaution measure taken? | discrete | numeric-1.0 | 364249 | 122997 | Prevension/precaution measure taken? |
| 30 | DMTYPE | Type of measure | discrete | numeric-1.0 | 355788 | 131458 | Type of measure |
| 31 | DMCHEM | Chemical type used if any | discrete | numeric-1.0 | 25208 | 462038 | Chemical type used if any |
| 32 | FERT | Is Fertilizer Used? | discrete | numeric-1.0 | 441294 | 45952 | Is Fertilizer Used? |
| 33 | FERTTYPE | Type of fertilizer used if any? | discrete | numeric-1.0 | 182603 | 304643 | Type of fertilizer used if any? |
| 34 | D22A | If chemical fertilizer used | discrete | numeric-1.0 | 65013 | 422233 | If chemical fertilizer used |
| 35 | D22B | Quantity of chemical fertilizer used | discrete | numeric-8.3 | 65112 | 422134 | Quantity of chemical fertilizer used |
| 36 | D23 | If natural fertilizer used, type | discrete | numeric-1.0 | 128724 | 358522 | If natural fertilizer used, type |
| 37 | D24 | How often is temporary crop field used in Meher (main) season? | discrete | numeric-1.0 | 303420 | 183826 | How often is temporary crop field used in Meher (main) season? |
| 38 | D25 | Crops | discrete | numeric-3.0 | 2354 | 484892 | Crops |
| 39 | D26 | What was the previous state of the field? | discrete | numeric-1.0 | 487173 | 73 | What was the previous state of the field? |
| 40 | AREAH | Area in Hectare | continuous | numeric-8.6 | 487125 | 121 | Area in Hectare |
| 41 | LANDUSE | LANDUSE | discrete | numeric-1.0 | 487246 | 0 | Landuse |
| 42 | PRODQ | PRODUCTION IN QUINTALS | continuous | numeric-8.4 | 341342 | 145904 | Production in Quintal |

## File Mescellaneous

| # | Name | Label | Type | Format | Valid | Invalid | Question |
|---|---|---|---|---|---|---|---|
| 1 | REG | Region | discrete | numeric-2.0 | 46723 | 0 | Region |

## File Mescellaneous

| # | Name | Label | Type | Format | Valid | Invalid | Question |
|---|---|---|---|---|---|---|---|
| 2 | ZONE | Zone | discrete | numeric-2.0 | 46723 | 0 | Zone |
| 3 | DIST | District | continuous | numeric-2.0 | 46723 | 0 | District |
| 4 | FA | Farmers Association | continuous | numeric-3.0 | 46723 | 0 | Farmers Association |
| 5 | EA | Enumeration Area | discrete | numeric-2.0 | 46723 | 0 | Enumeration Area |
| 6 | HH | Household Id | continuous | numeric-3.0 | 46723 | 0 | Household Id |
| 7 | HHSEX | Head sex | discrete | numeric-1.0 | 46723 | 0 | Head sex |
| 8 | HID | Holder id | discrete | numeric-1.0 | 46723 | 0 | Holder id |
| 9 | PARCEL | Parcel | discrete | numeric-2.0 | 46723 | 0 | Parcel |
| 10 | FLD | Field | discrete | numeric-2.0 | 46723 | 0 | Field |
| 11 | AWGT | Sampling Weight | continuous | numeric-7.2 | 46723 | 0 | Sampling Weight |
| 12 | F1 | Do you exercise crop rotation on your land holing? | discrete | numeric-1.0 | 45133 | 1590 | Do you exercise crop rotation on your land holing? |
| 13 | F2 | Reason for not using chemical fertilizers on any one of your crop fields | discrete | numeric-1.0 | 25639 | 21084 | Reason for not using chemical fertilizers on any one of your crop fields |
| 14 | F3 | Reason for not participating in Extension Program | discrete | numeric-1.0 | 34225 | 12498 | Reason for not participating in Extension Program |
| 15 | F4 | Do you get credit services? | discrete | numeric-1.0 | 46714 | 9 | Do you get credit services? |
| 16 | F5 | If no in # 4 Why? | discrete | numeric-1.0 | 37379 | 9344 | If no in # 4 Why? |
| 17 | F6 | Do you get advisory services? | discrete | numeric-1.0 | 46711 | 12 | Do you get advisory services? |
| 18 | F7 | If no in # 6 Why? | discrete | numeric-1.0 | 20048 | 26675 | If no in # 6 Why? |
| 19 | F8 | Your major supplier of fertilizer is | discrete | numeric-1.0 | 44393 | 2330 | Your major supplier of fertilizer is |
| 20 | F9A | Total Chemical fertilizers (Urea+Dap) purchased for main season in 2003 E.C | continuous | numeric-8.3 | 19431 | 27292 | Total Chemical fertilizers (Urea+Dap) purchased for main season in 2003 E.C |
| 21 | F9B | Total Dap fertilizers purchased for main season in 2003 E.C | continuous | numeric-8.3 | 23526 | 23197 | Total Dap fertilizers purchased for main season in 2003 E.C |
| 22 | F9C | Total Urea fertilizers purchased for main season in 2003 E.C | continuous | numeric-8.3 | 22949 | 23774 | Total Urea fertilizers purchased for main season in 2003 E.C |
| 23 | F10 | How many oxen do you have in this Meher season? | discrete | numeric-2.0 | 40710 | 6013 | How many oxen do you have in this Meher season? |
| 24 | F11 | If you have one or no ox how do you plough? | discrete | numeric-1.0 | 30980 | 15743 | If you have one or no ox how do you plough? |
| 25 | F12 | Total number of fields recorded for the holder | continuous | numeric-2.0 | 46526 | 197 | Total number of fields recorded for the holder |
| 26 | F13 | Total number of crop fields recorded for the holder | continuous | numeric-2.0 | 46420 | 303 | Total number of crop fields recorded for the holder |
| 27 | F14 | Has the holder ploughed additional fields over that of the previous year? | discrete | numeric-1.0 | 44693 | 2030 | Has the holder ploughed additional fields over that of the previous year? |

## File Mescellaneous

| # | Name | Label | Type | Format | Valid | Invalid | Question |
|---|---|---|---|---|---|---|---|
| 28 | F15 | If yes in question # 13, what was the previous state of the additional fields? | discrete | numeric-1.0 | 5777 | 40946 | If yes in question # 13, what was the previous state of the additional fields? |

# Variables Description

**Dataset contains85 variable(s)**

## File Holder Information 2003 EC

### #1 REG: Region

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-15] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 /-] [Invalid=0 /-] [Mean=4.992 /-] [StdDev=2.636 /-] |
| **Literal question** | Region |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | | 3246 | 6.9% |
| 2 | | 903 | 1.9% |
| 3 | | 8837 | 18.9% |
| 4 | | 14973 | 32.0% |
| 5 | | 1433 | 3.1% |
| 6 | | 1902 | 4.1% |
| 7 | | 12842 | 27.5% |
| 12 | | 1665 | 3.6% |
| 13 | | 486 | 1.0% |
| 15 | | 486 | 1.0% |

***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.***

### #2 ZONE: Zone

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-21] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 /-] [Invalid=0 /-] [Mean=7.199 /-] [StdDev=5.411 /-] |
| **Literal question** | Zone |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | | 5872 | 12.6% |
| 2 | | 4721 | 10.1% |
| 3 | | 4501 | 9.6% |
| 4 | | 4308 | 9.2% |
| 5 | | 3153 | 6.7% |
| 6 | | 2996 | 6.4% |
| 7 | | 2511 | 5.4% |
| 8 | | 2169 | 4.6% |
| 9 | | 2751 | 5.9% |
| 10 | | 2342 | 5.0% |
| 11 | | 1738 | 3.7% |
| 12 | | 1582 | 3.4% |
| 13 | | 1218 | 2.6% |
| 14 | | 1173 | 2.5% |
| 15 | | 402 | 0.9% |
| 16 | | 400 | 0.9% |
| 17 | | 1525 | 3.3% |
| 18 | | 1168 | 2.5% |
| 19 | | 1192 | 2.5% |
| 20 | | 632 | 1.4% |

# File Holder Information 2003 EC

## #2 ZONE: Zone

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 21 | | 419 | 0.9% |

***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.***

## #3 DIST: District

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 1-24] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 /-] [Invalid=0 /-] [Mean=5.742 /-] [StdDev=4.659 /-] |
| **Literal question** | District |

## #4 FA: Farmers Association

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 1-403] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 /-] [Invalid=0 /-] [Mean=14.791 /-] [StdDev=20.063 /-] |
| **Literal question** | Farmers Association |

## #5 EA: Enumeration Area

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-17] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 /-] [Invalid=0 /-] [Mean=3.019 /-] [StdDev=2.113 /-] |
| **Literal question** | Enumeration Area |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | | 13106 | 28.0% |
| 2 | | 10659 | 22.8% |
| 3 | | 7984 | 17.1% |
| 4 | | 5591 | 12.0% |
| 5 | | 3764 | 8.0% |
| 6 | | 2430 | 5.2% |
| 7 | | 1379 | 2.9% |
| 8 | | 733 | 1.6% |
| 9 | | 533 | 1.1% |
| 10 | | 205 | 0.4% |
| 11 | | 163 | 0.3% |
| 12 | | 144 | 0.3% |
| 13 | | 42 | 0.1% |
| 16 | | 20 | 0.0% |
| 17 | | 20 | 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.***

## #6 HH: Household Id

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 1-987] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 /-] [Invalid=0 /-] [Mean=86.751 /-] [StdDev=59.377 /-] |
| **Literal question** | Household Id |

## #7 HHSEX: Head sex

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 /-] [Invalid=0 /-] |
| **Literal question** | Head sex |

# File Holder Information 2003 EC

## #7 HHSEX: Head sex

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | Male | 38098 | 81.5% |
| 2 | Female | 8675 | 18.5% |

***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.***

## #8 HID: Holder id

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 /-] [Invalid=0 /-] [Mean=1.055 /-] [StdDev=0.299 /-] |
| **Literal question** | Holder id |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 0 | | 1 | 0.0% |
| 1 | | 44730 | 95.6% |
| 2 | | 1662 | 3.6% |
| 3 | | 285 | 0.6% |
| 4 | | 54 | 0.1% |
| 5 | | 22 | 0.0% |
| 6 | | 11 | 0.0% |
| 7 | | 4 | 0.0% |
| 9 | | 4 | 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.***

## #9 HWEIGHT: Sampling Weight

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 14.29-1773.81] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 /-] [Invalid=0 /-] [Mean=320.696 /-] [StdDev=206.897 /-] |
| **Literal question** | Sampling Weight |

## #10 AGE: Age

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-99] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 / 14999933.46 ] [Invalid=0 / 0 ] [Mean=42.55 / 42.877 ] [StdDev=15.673 / 15.846 ] |
| **Literal question** | Age |

## #11 SEX: Sex

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 / 14999933.46 ] [Invalid=0 / 0 ] |
| **Literal question** | Sex |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Male | 38130 | 12311020.3 | 82.1% |
| 2 | Female | 8643 | 2688913.2 | 17.9% |

***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.***

## #12 EDUC: Education (Highest Grade)

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-15] [Missing=*/99] |
| **Statistics [NW/ W]** | [Valid=46664 / 14975193.99 ] [Invalid=109 / 24739.47 ] |
| **Literal question** | Education (Highest Grade) |

# File Holder Information 2003 EC

## #12 EDUC: Education (Highest Grade)

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Illiterate | 29469 | 9306935.9 | 62.1% |
| 2 | Literate | 3394 | 1286091.3 | 8.6% |
| 3 | Grade 1 | 1019 | 323441.9 | 2.2% |
| 4 | Grade 2 | 1786 | 561344.2 | 3.7% |
| 5 | Grade 3 | 2053 | 669016.7 | 4.5% |
| 6 | Grade 4 | 1926 | 612049.6 | 4.1% |
| 7 | Grade 5 | 1682 | 550228.7 | 3.7% |
| 8 | Grade 6 | 1626 | 506296.7 | 3.4% |
| 9 | Grade 7 | 1180 | 361576.4 | 2.4% |
| 10 | Grade 8 | 945 | 299797.0 | 2.0% |
| 11 | Grade 9 | 452 | 136266.2 | 0.9% |
| 12 | Grade 10 | 673 | 216064.8 | 1.4% |
| 13 | Grade 11 | 53 | 16165.5 | 0.1% |
| 14 | Grade 12 Completed | 189 | 63077.9 | 0.4% |
| 15 | Above Grade 12 | 217 | 66841.2 | 0.4% |
| 99 | Missing | 109 | 24739.5 | |

***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.***

## #13 V12: Household Size

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-73] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 / 14999933.46 ] [Invalid=0 / 0 ] [Mean=5.401 / 5.378 ] [StdDev=2.432 / 2.364 ] |
| **Literal question** | Household Size |

## #14 HTYPE: Type of Holding

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 / 14999933.46 ] [Invalid=0 / 0 ] |
| **Literal question** | Type of Holding |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Crop only | 4856 | 1515919.8 | 10.1% |
| 2 | Livestock only | 2512 | 594657.5 | 4.0% |
| 3 | Both | 39405 | 12889356.1 | 85.9% |

***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.***

## #15 HRATIO: Rate

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0.0059758-0.7264691] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46773 /-] [Invalid=0 /-] [Mean=0.0651 /-] [StdDev=0.0914 /-] |

# File Field Information 2003 EC

## #1 REG: Region

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-15] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 /-] [Invalid=0 /-] [Mean=5.128 /-] [StdDev=2.49 /-] |
| **Literal question** | Region |

# File Field Information 2003 EC

## #1 REG: Region

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | | 26775 | 5.5% |
| 2 | | 2719 | 0.6% |
| 3 | | 91882 | 18.9% |
| 4 | | 156776 | 32.2% |
| 5 | | 4741 | 1.0% |
| 6 | | 16759 | 3.4% |
| 7 | | 166297 | 34.1% |
| 12 | | 11220 | 2.3% |
| 13 | | 5189 | 1.1% |
| 15 | | 4888 | 1.0% |

***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.***

## #2 ZONE: Zone

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-21] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 /-] [Invalid=0 /-] [Mean=7.345 /-] [StdDev=5.48 /-] |
| **Literal question** | Zone |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | | 54860 | 11.3% |
| 2 | | 44387 | 9.1% |
| 3 | | 52746 | 10.8% |
| 4 | | 46098 | 9.5% |
| 5 | | 33006 | 6.8% |
| 6 | | 37156 | 7.6% |
| 7 | | 22512 | 4.6% |
| 8 | | 20660 | 4.2% |
| 9 | | 29013 | 6.0% |
| 10 | | 26804 | 5.5% |
| 11 | | 16821 | 3.5% |
| 12 | | 15471 | 3.2% |
| 13 | | 14257 | 2.9% |
| 14 | | 9826 | 2.0% |
| 15 | | 3550 | 0.7% |
| 16 | | 3392 | 0.7% |
| 17 | | 14444 | 3.0% |
| 18 | | 15412 | 3.2% |
| 19 | | 13468 | 2.8% |
| 20 | | 8237 | 1.7% |
| 21 | | 5126 | 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.***

## #3 DIST: District

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 1-24] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 /-] [Invalid=0 /-] [Mean=5.886 /-] [StdDev=4.689 /-] |
| **Literal question** | District |

# File Field Information 2003 EC

## #4 FA: Farmers Association

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 1-403] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 /-] [Invalid=0 /-] [Mean=14.904 /-] [StdDev=18.773 /-] |
| **Literal question** | Farmers Association |

## #5 EA: Enumeration Area

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-17] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 /-] [Invalid=0 /-] [Mean=3.016 /-] [StdDev=2.057 /-] |
| **Literal question** | Enumeration Area |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | | 131942 | 27.1% |
| 2 | | 111916 | 23.0% |
| 3 | | 86552 | 17.8% |
| 4 | | 59924 | 12.3% |
| 5 | | 39974 | 8.2% |
| 6 | | 24811 | 5.1% |
| 7 | | 14259 | 2.9% |
| 8 | | 7119 | 1.5% |
| 9 | | 5475 | 1.1% |
| 10 | | 1687 | 0.3% |
| 11 | | 1909 | 0.4% |
| 12 | | 1127 | 0.2% |
| 13 | | 264 | 0.1% |
| 16 | | 95 | 0.0% |
| 17 | | 192 | 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.***

## #6 HH: Household Id

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 1-987] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 /-] [Invalid=0 /-] [Mean=86.773 /-] [StdDev=57.676 /-] |
| **Literal question** | Household Id |

## #7 HHSEX: Head sex

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 /-] [Invalid=0 /-] |
| **Literal question** | Head sex |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | Male | 415296 | 85.2% |
| 2 | Female | 71950 | 14.8% |

***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.***

## #8 HID: Holder id

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 /-] [Invalid=0 /-] [Mean=1.013 /-] [StdDev=0.165 /-] |
| **Literal question** | Holder id |

# File Field Information 2003 EC

## #8 HID: Holder id

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 0 | | 11 | 0.0% |
| 1 | | 482672 | 99.1% |
| 2 | | 3721 | 0.8% |
| 3 | | 479 | 0.1% |
| 4 | | 142 | 0.0% |
| 5 | | 72 | 0.0% |
| 6 | | 78 | 0.0% |
| 7 | | 42 | 0.0% |
| 9 | | 29 | 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.***

## #9 PARCEL: Parcel

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-90] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487245 /-] [Invalid=1 /-] [Mean=2.115 /-] [StdDev=2.224 /-] |
| **Literal question** | Parcel |

## #10 FLD: Field

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 1-99] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 /-] [Invalid=0 /-] [Mean=3.904 /-] [StdDev=4.03 /-] |
| **Literal question** | Field |

## #11 FWEIGHT: Sampling Weight

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 14.29-1773.81] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 /-] [Invalid=0 /-] [Mean=333.371 /-] [StdDev=204.846 /-] |
| **Literal question** | Sampling Weight |

## #12 FLDTYPE: Field Type

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 /-] [Invalid=0 /-] |
| **Literal question** | Field Type |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | Pure stand | 252421 | 51.8% |
| 2 | Mixed crop | 112634 | 23.1% |
| 3 | Other Land use | 122191 | 25.1% |

***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.***

## #13 CROP: CROP

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-127] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 / 162433893.65 ] [Invalid=0 / 0 ] |
| **Literal question** | CROP |

*Frequency table not shown (125 Modalities)*

## #14 OWNTYPE: Ownership

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 / 162433893.65 ] [Invalid=0 / 0 ] |

# File Field Information 2003 EC

## #14 OWNTYPE: Ownership

| | |
|---|---|
| **Literal question** | Ownership |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Private | 451770 | 149892445.7 | 92.3% |
| 2 | Rent/leased | 20508 | 7677700.1 | 4.7% |
| 3 | Other | 14965 | 4863536.4 | 3.0% |
| 9 | NR | 3 | 211.4 | 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 EXT: Is field under Extension Program?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=365219 / 121791257.17 ] [Invalid=122027 / 40642636.48 ] |
| **Literal question** | Is field under Extension Program? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Yes | 30852 | 12327596.8 | 10.1% |
| 2 | No | 334367 | 109463660.4 | 89.9% |
| Sysmiss | | 122027 | 40642636.5 | |

***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.***

## #16 IRRG: Is Field Irrigated?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=365053 / 121726062.14 ] [Invalid=122193 / 40707831.51 ] |
| **Literal question** | Is Field Irrigated? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Yes | 11784 | 3555198.9 | 2.9% |
| 2 | No | 353269 | 118170863.2 | 97.1% |
| Sysmiss | | 122193 | 40707831.5 | |

***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.***

## #17 SIRRG: If Field Irrigated source of water

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=11793 / 3555448.35 ] [Invalid=475453 / 158878445.3 ] |
| **Literal question** | If Field Irrigated source of water |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | River | 8598 | 2685366.9 | 75.5% |
| 2 | Lake | 137 | 47583.0 | 1.3% |
| 3 | Pond | 843 | 292640.0 | 8.2% |
| 4 | Harvested water | 573 | 180265.6 | 5.1% |
| 5 | Other | 1642 | 349592.9 | 9.8% |
| Sysmiss | | 475453 | 158878445.3 | |

***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 SERRO: Is Field Prevented form Erosion

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=435120 / 145816407.83 ] [Invalid=52126 / 16617485.82 ] |
| **Literal question** | Is Field Prevented form Erosion |

# File Field Information 2003 EC

## #18 SERRO: Is Field Prevented form Erosion

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Yes | 226353 | 79520036.4 | 54.5% |
| 2 | No | 208767 | 66296371.5 | 45.5% |
| Sysmiss | | 52126 | 16617485.8 | |

***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.***

## #19 MERRO: Common way of prevention

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=226666 / 79640241.24 ] [Invalid=260580 / 82793652.41 ] |
| **Literal question** | Common way of prevention |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Terracing | 72208 | 25951124.1 | 32.6% |
| 2 | Water catchment | 28856 | 10551207.5 | 13.2% |
| 3 | Afforestation | 3810 | 1345110.5 | 1.7% |
| 4 | Plough along the contour | 78680 | 26236165.8 | 32.9% |
| 5 | Others | 43112 | 15556633.4 | 19.5% |
| Sysmiss | | 260580 | 82793652.4 | |

***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.***

## #20 TREES: Number of Fruit Trees

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-250000] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=78732 / 25056598.82 ] [Invalid=408514 / 137377294.83 ] [Mean=210.057 / 250.011 ] [StdDev=1229.281 / 1800.848 ] |
| **Literal question** | Number of Fruit Trees |

## #21 TREESBA: Number of Fruit Bearing Trees

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-35105] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=76339 / 24163938.72 ] [Invalid=410907 / 138269954.93 ] [Mean=121.293 / 131.591 ] [StdDev=546.744 / 546.572 ] |
| **Literal question** | Number of Fruit Bearing Trees |

## #22 SEEDTYPE: Seed / Seedling Type

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=364923 / 121694545.41 ] [Invalid=122323 / 40739348.24 ] |
| **Literal question** | Seed / Seedling Type |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Improved seed | 9094 | 3540736.1 | 2.9% |
| 2 | Indigenous seed | 355829 | 118153809.3 | 97.1% |
| Sysmiss | | 122323 | 40739348.2 | |

***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.***

## #23 WTIMSEED: Quantity of improved seeds used

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 0-9999.999] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=8392 / 3274557.38 ] [Invalid=478854 / 159159336.27 ] |
| **Literal question** | Quantity of improved seeds used |

*Frequency table not shown (865 Modalities)*

# File Field Information 2003 EC

## #24 COSTIMPS: Price of improved seeds used

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 0-999999.99] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=8386 / 3272740.2 ] [Invalid=478860 / 159161153.45 ] |
| **Literal question** | Price of improved seeds used |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 99999.99 | Not stated | | |

***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 WTNISEED: Quantity of indigenous seeds used

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 0-9999.999] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=295030 / 99148833.86 ] [Invalid=192216 / 63285059.79 ] |
| **Literal question** | Quantity of indigenous seeds used |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 9999.999 | Not stated | | |

***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 DAMAGE: Was crop damaged?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=364449 / 121498714.97 ] [Invalid=122797 / 40935178.68 ] |
| **Literal question** | Was crop damaged? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Yes | 103356 | 36361956.0 | 29.9% |
| 2 | No | 261093 | 85136759.0 | 70.1% |
| Sysmiss | | 122797 | 40935178.7 | |

***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.***

## #27 DREASON: If yes, cause of damage

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=103345 / 36359321.52 ] [Invalid=383901 / 126074572.13 ] |
| **Literal question** | If yes, cause of damage |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Too much rain | 23238 | 8102577.2 | 22.3% |
| 2 | Too little rain | 1975 | 748585.9 | 2.1% |
| 3 | Insects | 3560 | 1260204.0 | 3.5% |
| 4 | Crop disease | 143 | 34867.3 | 0.1% |
| 5 | Weeds | 10767 | 3521729.5 | 9.7% |
| 6 | Hail | 18588 | 6466721.0 | 17.8% |
| 7 | Frost | 15981 | 6371205.6 | 17.5% |
| 8 | Floods | 4267 | 1144993.3 | 3.1% |
| 9 | Wild animals | 740 | 222951.8 | 0.6% |
| 10 | Locust | 4288 | 1698256.0 | 4.7% |
| 11 | Birds | 5516 | 1807808.5 | 5.0% |
| 12 | Shortage of seed | 462 | 146909.2 | 0.4% |
| 13 | Depletion of soi | 7219 | 2484371.1 | 6.8% |
| 14 | Security problem | 14 | 2473.2 | 0.0% |

# File Field Information 2003 EC

## #27 DREASON: If yes, cause of damage

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 15 | Other | 6586 | 2345643.7 | 6.5% |
| 99 | NR | 1 | 24.2 | 0.0% |
| Sysmiss | | 383901 | 126074572.1 | |

***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.***

## #28 DPERCENT: Percent of damaged crop

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 0-999] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=103459 / 36398438.23 ] [Invalid=383787 / 126035455.42 ] |
| **Literal question** | Percent of damaged crop |

*Frequency table not shown (90 Modalities)*

## #29 DMEASURE: Prevension/precaution measure taken?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=364249 / 121377846.98 ] [Invalid=122997 / 41056046.67 ] |
| **Literal question** | Prevension/precaution measure taken? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Yes | 355724 | 118540215.6 | 97.7% |
| 2 | No | 8525 | 2837631.4 | 2.3% |
| Sysmiss | | 122997 | 41056046.7 | |

***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.***

## #30 DMTYPE: Type of measure

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=355788 / 118564331.66 ] [Invalid=131458 / 43869561.99 ] |
| **Literal question** | Type of measure |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Chemical | 6666 | 2387696.4 | 2.0% |
| 2 | Non_chemical | 331872 | 109981340.0 | 92.8% |
| 3 | Both | 17248 | 6194600.9 | 5.2% |
| 9 | NR | 2 | 694.4 | 0.0% |
| Sysmiss | | 131458 | 43869562.0 | |

***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 DMCHEM: Chemical type used if any

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=25208 / 9075665.54 ] [Invalid=462038 / 153358228.11 ] |
| **Literal question** | Chemical type used if any |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Pesticide | 2772 | 945879.5 | 10.4% |
| 2 | Herbicide | 19718 | 7125062.3 | 78.5% |
| 3 | Fungicide | 1090 | 380123.6 | 4.2% |
| 4 | Pesticide & Herbicide | 451 | 164198.7 | 1.8% |
| 5 | Pesticide & Fungicide | 263 | 97084.0 | 1.1% |
| 6 | Herbicide & Fungicide | 649 | 262212.7 | 2.9% |

# File Field Information 2003 EC

## #31 DMCHEM: Chemical type used if any

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 7 | All | 23 | 9883.6 | 0.1% |
| 9 | Not stated | 242 | 91221.1 | 1.0% |
| Sysmiss | | 462038 | 153358228.1 | |

***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.***

## #32 FERT: Is Fertilizer Used?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=441294 / 148026511.28 ] [Invalid=45952 / 14407382.37 ] |
| **Literal question** | Is Fertilizer Used? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Yes | 182387 | 66640985.7 | 45.0% |
| 2 | No | 258907 | 81385525.6 | 55.0% |
| Sysmiss | | 45952 | 14407382.4 | |

***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.***

## #33 FERTTYPE: Type of fertilizer used if any?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=182603 / 66731475.27 ] [Invalid=304643 / 95702418.38 ] |
| **Literal question** | Type of fertilizer used if any? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Natural | 117777 | 41879052.1 | 62.8% |
| 2 | Chemical | 55445 | 21352710.8 | 32.0% |
| 3 | Both | 9381 | 3499712.3 | 5.2% |
| Sysmiss | | 304643 | 95702418.4 | |

***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.***

## #34 D22A: If chemical fertilizer used

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=65013 / 24945999.11 ] [Invalid=422233 / 137487894.54 ] |
| **Literal question** | If chemical fertilizer used |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Urea | 5558 | 2163687.7 | 8.7% |
| 2 | DAP | 27759 | 10358206.1 | 41.5% |
| 3 | Both | 31484 | 12341542.7 | 49.5% |
| 9 | Not Stated | 212 | 82562.7 | 0.3% |
| Sysmiss | | 422233 | 137487894.5 | |

***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.***

## #35 D22B: Quantity of chemical fertilizer used

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 0-9999.99] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=65112 / 24988027.64 ] [Invalid=422134 / 137445866.01 ] |
| **Literal question** | Quantity of chemical fertilizer used |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 9999.99 | Not stated | | |

# File Field Information 2003 EC

## #35 D22B: Quantity of chemical fertilizer 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.***

## #36 D23: If natural fertilizer used, type

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=128724 / 45968910.18 ] [Invalid=358522 / 116464983.47 ] |
| **Literal question** | If natural fertilizer used, type |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Manure | 97708 | 34430803.7 | 74.9% |
| 2 | Compost | 9073 | 3426168.2 | 7.5% |
| 3 | Organic | 245 | 86738.9 | 0.2% |
| 4 | Manure and Compost | 16686 | 6300145.8 | 13.7% |
| 5 | Manure and Organic | 130 | 48776.7 | 0.1% |
| 6 | Compost and organic | 22 | 10885.1 | 0.0% |
| 7 | All | 59 | 34197.4 | 0.1% |
| 8 | Others | 3610 | 1194691.1 | 2.6% |
| 9 | NR | 1191 | 436503.3 | 0.9% |
| Sysmiss | | 358522 | 116464983.5 | |

***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.***

## #37 D24: How often is temporary crop field used in Meher (main) season?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 0-8] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=303420 / 101062034.06 ] [Invalid=183826 / 61371859.59 ] [Mean=1.008 / 1.011 ] [StdDev=0.0942 / 0.105 ] |
| **Literal question** | How often is temporary crop field used in Meher (main) season? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 0 | | 11 | 3030.0 | 0.0% |
| 1 | | 300871 | 99957721.8 | 98.9% |
| 2 | | 2522 | 1099323.8 | 1.1% |
| 3 | | 2 | 509.1 | 0.0% |
| 4 | | 12 | 1014.5 | 0.0% |
| 5 | | 1 | 391.0 | 0.0% |
| 8 | | 1 | 43.9 | 0.0% |
| Sysmiss | | 183826 | 61371859.6 | |

***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.***

## #38 D25: Crops

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-120] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=2354 / 1044065.52 ] [Invalid=484892 / 161389828.13 ] |
| **Literal question** | Crops |

*Frequency table not shown (120 Modalities)*

## #39 D26: What was the previous state of the field?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487173 / 162409837.84 ] [Invalid=73 / 24055.81 ] |
| **Literal question** | What was the previous state of the field? |

# File Field Information 2003 EC

## #39 D26: What was the previous state of the field?

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Fallow land | 10031 | 3279945.1 | 2.0% |
| 2 | Crop field | 369082 | 122519239.0 | 75.4% |
| 3 | Virgin | 40469 | 14682298.6 | 9.0% |
| 4 | Rented in crop field | 6441 | 2315221.4 | 1.4% |
| 5 | Others | 61150 | 19613133.8 | 12.1% |
| Sysmiss | | 73 | 24055.8 | |

***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.***

## #40 AREAH: Area in Hectare

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-9.998276] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487125 / 162393037.95 ] [Invalid=121 / 40855.7 ] [Mean=0.104 / 0.104 ] [StdDev=0.225 / 0.223 ] |
| **Literal question** | Area in Hectare |

## #41 LANDUSE: LANDUSE

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=487246 / 162433893.65 ] [Invalid=0 / 0 ] |
| **Literal question** | Landuse |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Temporary crop land | 266427 | 89837969.6 | 55.3% |
| 2 | Permanent crop land | 97559 | 31718331.4 | 19.5% |
| 3 | Grazing land | 26554 | 9896058.5 | 6.1% |
| 4 | Fallow Land | 11735 | 3493119.4 | 2.2% |
| 5 | Wood land | 12322 | 4626347.9 | 2.8% |
| 6 | Other land use | 72649 | 22862066.8 | 14.1% |

***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.***

## #42 PRODQ: PRODUCTION IN QUINTALS

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-602.7233] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=341342 / 116164962.56 ] [Invalid=145904 / 46268931.09 ] [Mean=2.203 / 2.231 ] [StdDev=5.137 / 5.289 ] |
| **Literal question** | Production in Quintal |

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## #1 REG: Region

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-15] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46723 /-] [Invalid=0 /-] [Mean=4.992 /-] [StdDev=2.635 /-] |
| **Literal question** | Region |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | | 3246 | 6.9% |
| 2 | | 893 | 1.9% |
| 3 | | 8831 | 18.9% |
| 4 | | 14958 | 32.0% |
| 5 | | 1431 | 3.1% |
| 6 | | 1901 | 4.1% |

# File Mescellaneous

## #1 REG: Region

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 7 | | 12831 | 27.5% |
| 12 | | 1660 | 3.6% |
| 13 | | 486 | 1.0% |
| 15 | | 486 | 1.0% |

***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.***

## #2 ZONE: Zone

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-21] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46723 /-] [Invalid=0 /-] [Mean=7.202 /-] [StdDev=5.412 /-] |
| **Literal question** | Zone |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | | 5859 | 12.5% |
| 2 | | 4717 | 10.1% |
| 3 | | 4488 | 9.6% |
| 4 | | 4303 | 9.2% |
| 5 | | 3151 | 6.7% |
| 6 | | 2995 | 6.4% |
| 7 | | 2509 | 5.4% |
| 8 | | 2168 | 4.6% |
| 9 | | 2748 | 5.9% |
| 10 | | 2342 | 5.0% |
| 11 | | 1737 | 3.7% |
| 12 | | 1579 | 3.4% |
| 13 | | 1217 | 2.6% |
| 14 | | 1172 | 2.5% |
| 15 | | 402 | 0.9% |
| 16 | | 400 | 0.9% |
| 17 | | 1525 | 3.3% |
| 18 | | 1168 | 2.5% |
| 19 | | 1192 | 2.6% |
| 20 | | 632 | 1.4% |
| 21 | | 419 | 0.9% |

***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.***

## #3 DIST: District

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 1-24] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46723 /-] [Invalid=0 /-] [Mean=5.742 /-] [StdDev=4.659 /-] |
| **Literal question** | District |

## #4 FA: Farmers Association

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 1-403] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46723 /-] [Invalid=0 /-] [Mean=14.792 /-] [StdDev=20.073 /-] |
| **Literal question** | Farmers Association |

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## #5 EA: Enumeration Area

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-17] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46723 /-] [Invalid=0 /-] [Mean=3.02 /-] [StdDev=2.113 /-] |
| **Literal question** | Enumeration Area |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | | 13078 | 28.0% |
| 2 | | 10649 | 22.8% |
| 3 | | 7978 | 17.1% |
| 4 | | 5591 | 12.0% |
| 5 | | 3763 | 8.1% |
| 6 | | 2428 | 5.2% |
| 7 | | 1378 | 2.9% |
| 8 | | 733 | 1.6% |
| 9 | | 533 | 1.1% |
| 10 | | 204 | 0.4% |
| 11 | | 163 | 0.3% |
| 12 | | 143 | 0.3% |
| 13 | | 42 | 0.1% |
| 16 | | 20 | 0.0% |
| 17 | | 20 | 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.***

## #6 HH: Household Id

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 1-987] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46723 /-] [Invalid=0 /-] [Mean=86.767 /-] [StdDev=59.386 /-] |
| **Literal question** | Household Id |

## #7 HHSEX: Head sex

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46723 /-] [Invalid=0 /-] |
| **Literal question** | Head sex |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 1 | Male | 38056 | 81.5% |
| 2 | Female | 8667 | 18.5% |

***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.***

## #8 HID: Holder id

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46723 /-] [Invalid=0 /-] [Mean=1.055 /-] [StdDev=0.296 /-] |
| **Literal question** | Holder id |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 0 | | 1 | 0.0% |
| 1 | | 44705 | 95.7% |
| 2 | | 1645 | 3.5% |
| 3 | | 281 | 0.6% |

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## #8 HID: Holder id

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 4 | | 51 | 0.1% |
| 5 | | 21 | 0.0% |
| 6 | | 11 | 0.0% |
| 7 | | 4 | 0.0% |
| 9 | | 4 | 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.***

## #9 PARCEL: Parcel

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 99-99] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46723 /-] [Invalid=0 /-] [Mean=99 /-] [StdDev=0 /-] |
| **Literal question** | Parcel |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 99 | | 46723 | 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.***

## #10 FLD: Field

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 99-99] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46723 /-] [Invalid=0 /-] [Mean=99 /-] [StdDev=0 /-] |
| **Literal question** | Field |

| Value | Label | Cases | Percentage |
|---|---|---|---|
| 99 | | 46723 | 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.***

## #11 AWGT: Sampling Weight

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 14.29-1773.81] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46723 /-] [Invalid=0 /-] [Mean=320.76 /-] [StdDev=206.866 /-] |
| **Literal question** | Sampling Weight |

## #12 F1: Do you exercise crop rotation on your land holing?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=45133 / 14580993.08 ] [Invalid=1590 / 405890.41 ] |
| **Literal question** | Do you exercise crop rotation on your land holing? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Yes | 34452 | 11665323.8 | 80.0% |
| 2 | No | 10681 | 2915669.3 | 20.0% |
| Sysmiss | | 1590 | 405890.4 | |

***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: Reason for not using chemical fertilizers on any one of your crop fields

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=25639 / 7419440.9 ] [Invalid=21084 / 7567442.59 ] |
| **Literal question** | Reason for not using chemical fertilizers on any one of your crop fields |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Ignorance | 1869 | 490452.2 | 6.6% |

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## #13 F2: Reason for not using chemical fertilizers on any one of your crop fields

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 2 | High price | 2614 | 826210.1 | 11.1% |
| 3 | Lack of money | 9173 | 2962465.5 | 39.9% |
| 4 | Non-availability of supply | 3157 | 635588.8 | 8.6% |
| 5 | Lack of credit service | 448 | 147151.0 | 2.0% |
| 6 | Skeptical of the outcome | 1819 | 594055.4 | 8.0% |
| 7 | Others | 6559 | 1763517.9 | 23.8% |
| Sysmiss | | 21084 | 7567442.6 | |

***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: Reason for not participating in Extension Program

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=34225 / 10642017.86 ] [Invalid=12498 / 4344865.63 ] |
| **Literal question** | Reason for not participating in Extension Program |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Ignorance | 4447 | 1408009.0 | 13.2% |
| 2 | Lack of Money | 11444 | 3644914.0 | 34.3% |
| 3 | Skeptical of the outcome | 3272 | 1018842.9 | 9.6% |
| 4 | Non-availability of the service | 6719 | 1788619.1 | 16.8% |
| 5 | Lack of adequate crop fields | 5117 | 1744194.2 | 16.4% |
| 6 | Others | 3226 | 1037438.7 | 9.7% |
| Sysmiss | | 12498 | 4344865.6 | |

***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 F4: Do you get credit services?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46714 / 14984159.05 ] [Invalid=9 / 2724.44 ] |
| **Literal question** | Do you get credit services? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Yes | 9319 | 3345024.6 | 22.3% |
| 2 | No | 37395 | 11639134.4 | 77.7% |
| Sysmiss | | 9 | 2724.4 | |

***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.***

## #16 F5: If no in # 4 Why?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=37379 / 11636902.4 ] [Invalid=9344 / 3349981.09 ] |
| **Literal question** | If no in # 4 Why? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Non-availability of the service | 8229 | 1885815.1 | 16.2% |
| 2 | Unable to pay the loan | 13490 | 4532225.9 | 38.9% |
| 3 | Inadequate services provided | 9069 | 2908925.1 | 25.0% |
| 4 | Ignorance | 2261 | 728437.4 | 6.3% |
| 5 | Doesn't yield any results | 4330 | 1581498.9 | 13.6% |
| 6 | Others | 0 | 0.0 | 0.0% |

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## #16 F5: If no in # 4 Why?

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| Sysmiss | | 9344 | 3349981.1 | |

*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.*

## #17 F6: Do you get advisory services?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46711 / 14983966.15 ] [Invalid=12 / 2917.34 ] |
| **Literal question** | Do you get advisory services? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Yes | 26657 | 9057338.4 | 60.4% |
| 2 | No | 20054 | 5926627.7 | 39.6% |
| Sysmiss | | 12 | 2917.3 | |

*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: If no in # 6 Why?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=20048 / 5925505.04 ] [Invalid=26675 / 9061378.45 ] |
| **Literal question** | If no in # 6 Why? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Non-availability of the service | 5295 | 1208642.9 | 20.4% |
| 2 | Inadequate services provided | 8719 | 2829810.5 | 47.8% |
| 3 | Ignorance | 3910 | 1187596.6 | 20.0% |
| 4 | Doesn't yield any results | 665 | 202320.2 | 3.4% |
| 5 | Others | 1459 | 497135.0 | 8.4% |
| Sysmiss | | 26675 | 9061378.4 | |

*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.*

## #19 F8: Your major supplier of fertilizer is

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=44393 / 14328701.92 ] [Invalid=2330 / 658181.57 ] |
| **Literal question** | Your major supplier of fertilizer is |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Government organizations | 10043 | 3565121.0 | 24.9% |
| 2 | Private organizations | 2564 | 958835.7 | 6.7% |
| 3 | Merchants | 3272 | 1301263.3 | 9.1% |
| 4 | Others | 2965 | 1275367.0 | 8.9% |
| 5 | Never used fertilizer | 25549 | 7228114.9 | 50.4% |
| Sysmiss | | 2330 | 658181.6 | |

*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.*

## #20 F9A: Total Chemical fertilizers (Urea+Dap) purchased for main season in 2003 E.C

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-8779.02] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=19431 / 7263750.14 ] [Invalid=27292 / 7723133.35 ] [Mean=88.125 / 90.608 ] [StdDev=159.429 / 164.49 ] |
| **Literal question** | Total Chemical fertilizers (Urea+Dap) purchased for main season in 2003 E.C |

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## #21 F9B: Total Dap fertilizers purchased for main season in 2003 E.C

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-8773.02] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=23526 / 8976491.24 ] [Invalid=23197 / 6010392.25 ] [Mean=48.062 / 47.716 ] [StdDev=107.307 / 106.492 ] |
| **Literal question** | Total Dap fertilizers purchased for main season in 2003 E.C |

## #22 F9C: Total Urea fertilizers purchased for main season in 2003 E.C

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-3125] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=22949 / 8823127.98 ] [Invalid=23774 / 6163755.51 ] [Mean=26.033 / 26.578 ] [StdDev=68.189 / 70.779 ] |
| **Literal question** | Total Urea fertilizers purchased for main season in 2003 E.C |

## #23 F10: How many oxen do you have in this Meher season?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 0-20] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=40710 / 13229936.93 ] [Invalid=6013 / 1756946.56 ] [Mean=1.056 / 1.09 ] [StdDev=1.144 / 1.129 ] |
| **Literal question** | How many oxen do you have in this Meher season? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 0 | | 16434 | 5024939.5 | 38.0% |
| 1 | | 10322 | 3508450.3 | 26.5% |
| 2 | | 11389 | 3856250.1 | 29.1% |
| 3 | | 1195 | 410163.5 | 3.1% |
| 4 | | 1056 | 335067.2 | 2.5% |
| 5 | | 101 | 29472.3 | 0.2% |
| 6 | | 134 | 41004.4 | 0.3% |
| 7 | | 13 | 4215.4 | 0.0% |
| 8 | | 27 | 8435.6 | 0.1% |
| 9 | | 5 | 2024.6 | 0.0% |
| 10 | | 16 | 4549.7 | 0.0% |
| 11 | | 4 | 832.1 | 0.0% |
| 12 | | 9 | 2786.9 | 0.0% |
| 14 | | 2 | 914.4 | 0.0% |
| 20 | | 3 | 831.2 | 0.0% |
| Sysmiss | | 6013 | 1756946.6 | |

***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.***

## #24 F11: If you have one or no ox how do you plough?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=30980 / 9868896.51 ] [Invalid=15743 / 5117986.98 ] |
| **Literal question** | If you have one or no ox how do you plough? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | By renting ox | 2772 | 854965.9 | 8.7% |
| 2 | By pairing mine with someone's ox | 8893 | 3019173.7 | 30.6% |
| 3 | By pairing mine with cow/ horse | 481 | 167467.8 | 1.7% |
| 4 | Using horses or cows | 474 | 166770.5 | 1.7% |
| 5 | Hand digging | 9035 | 2647923.9 | 26.8% |
| 6 | Using borrowed oxen | 7503 | 2451877.5 | 24.8% |
| 7 | Others | 1822 | 560717.3 | 5.7% |

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## #24 F11: If you have one or no ox how do you plough?

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| Sysmiss | | 15743 | 5117987.0 | |

*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.*

## #25 F12: Total number of fields recorded for the holder

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-99] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46526 / 14931746.28 ] [Invalid=197 / 55137.21 ] [Mean=9.096 / 9.468 ] [StdDev=6.139 / 6.143 ] |
| **Literal question** | Total number of fields recorded for the holder |

## #26 F13: Total number of crop fields recorded for the holder

| | |
|---|---|
| **Information** | [Type= continuous] [Format=numeric] [Range= 0-86] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=46420 / 14902456.74 ] [Invalid=303 / 84426.75 ] [Mean=6.486 / 6.756 ] [StdDev=4.892 / 4.814 ] |
| **Literal question** | Total number of crop fields recorded for the holder |

## #27 F14: Has the holder ploughed additional fields over that of the previous year?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=44693 / 14481750.73 ] [Invalid=2030 / 505132.76 ] |
| **Literal question** | Has the holder ploughed additional fields over that of the previous year? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Yes | 5736 | 1992585.2 | 13.8% |
| 2 | No | 38957 | 12489165.5 | 86.2% |
| Sysmiss | | 2030 | 505132.8 | |

*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.*

## #28 F15: If yes in question # 13, what was the previous state of the additional fields?

| | |
|---|---|
| **Information** | [Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*] |
| **Statistics [NW/ W]** | [Valid=5777 / 2002609.13 ] [Invalid=40946 / 12984274.36 ] |
| **Literal question** | If yes in question # 13, what was the previous state of the additional fields? |

| Value | Label | Cases | Weighted | Percentage (Weighted) |
|---|---|---|---|---|
| 1 | Holder's virgin land | 1503 | 482049.7 | 24.1% |
| 2 | Public/ Community virgin land | 929 | 281988.3 | 14.1% |
| 3 | Borrowed fallow land | 3027 | 1128173.8 | 56.3% |
| 4 | Others | 318 | 110397.4 | 5.5% |
| Sysmiss | | 40946 | 12984274.4 | |

*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.*

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