

# Good Growth Plan 2014-2019

**Syngenta**

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visit\_data\_catalog\_at: <https://microdata.worldbank.org/index.php>

## Identification

### SURVEY ID NUMBER

ZMB\_2014-2019\_GGP-P\_v01\_M\_v01\_A\_OCS

### TITLE

Good Growth Plan 2014-2019

### COUNTRY/ECONOMY

Name	Country code
Zambia	ZMB

### STUDY TYPE

Agricultural Survey [ag/oth]

### ABSTRACT

Syngenta is committed to increasing crop productivity and to using limited resources such as land, water and inputs more efficiently. Since 2014, Syngenta has been measuring trends in agricultural input efficiency on a global network of real farms. The Good Growth Plan dataset shows aggregated productivity and resource efficiency indicators by harvest year. The data has been collected from more than 4,000 farms and covers more than 20 different crops in 46 countries. The data (except USA data and for Barley in UK, Germany, Poland, Czech Republic, France and Spain) was collected, consolidated and reported by Kynetec (previously Market Probe), an independent market research agency. It can be used as benchmarks for crop yield and input efficiency.

### KIND OF DATA

Sample survey data [ssd]

### UNIT OF ANALYSIS

Agricultural holdings

## Scope

### NOTES

Data was collected on the usage of inputs, such as crop protection products, chemical fertilizer, seeding rates, labor hours, machinery usage hours, and marketable crop yield on a per hectare basis.

### TOPICS

Topic	Vocabulary
Agriculture & Rural Development	FAO
Environment	FAO
Agricultural input efficiency	FAO

### KEYWORDS

Keyword
Input efficiency
Crop productivity
Agriculture
The Good Growth Plan

## Coverage

### GEOGRAPHIC COVERAGE

National coverage

## Producers and sponsors

### PRIMARY INVESTIGATORS

Name
Syngenta

### PRODUCERS

Name	Role
Kynetec	Technical assistance

## Sampling

### SAMPLING PROCEDURE

#### A. Sample design

Farms are grouped in clusters, which represent a crop grown in an area with homogenous agro- ecological conditions and include comparable types of farms. The sample includes reference and benchmark farms. The reference farms were selected by Syngenta and the benchmark farms were randomly selected by Kynetec within the same cluster.

#### B. Sample size

Sample sizes for each cluster are determined with the aim to measure statistically significant increases in crop efficiency over time. This is done by Kynetec based on target productivity increases and assumptions regarding the variability of farm metrics in each cluster. The smaller the expected increase, the larger the sample size needed to measure significant differences over time. Variability within clusters is assumed based on public research and expert opinion. In addition, growers are also grouped in clusters as a means of keeping variances under control, as well as distinguishing between growers in terms of crop size, region and technological level. A minimum sample size of 20 interviews per cluster is needed. The minimum number of reference farms is 5 of 20. The optimal number of reference farms is 10 of 20 (balanced sample).

#### C. Selection procedure

The respondents were picked randomly using a "quota based random sampling" procedure. Growers were first randomly selected and then checked if they complied with the quotas for crops, region, farm size etc. To avoid clustering high number of interviews at one sampling point, interviewers were instructed to do a maximum of 5 interviews in one village.

BF Screened from Zambia were selected based on the following criterion:

(a) smallholder maize growers

Location: Chongwe and Lusaka

BACKGROUND: White maize

No irrigation (e.g. rain fed instead)

Ploughing manually (e.g. with a hoe) or with cattle

Usage of chemical and/or organic fertilizers

Selling the harvest is the main after harvest activity

## data\_collection

### DATES OF DATA COLLECTION

Start	End
2014	2019

## DATA COLLECTION MODE

Face-to-face [f2f]

## questionnaires

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## QUESTIONNAIRES

Data collection tool for 2019 covered the following information:

## (A) PRE- HARVEST INFORMATION

PART I: Screening

PART II: Contact Information

PART III: Farm Characteristics

- a. Biodiversity conservation
- b. Soil conservation
- c. Soil erosion
- d. Description of growing area
- e. Training on crop cultivation and safety measures

PART IV: Farming Practices - Before Harvest

- a. Planting and fruit development - Field crops
- b. Planting and fruit development - Tree crops
- c. Planting and fruit development - Sugarcane
- d. Planting and fruit development - Cauliflower
- e. Seed treatment

## (B) HARVEST INFORMATION

PART V: Farming Practices - After Harvest

- a. Fertilizer usage
- b. Crop protection products
- c. Harvest timing & quality per crop - Field crops
- d. Harvest timing & quality per crop - Tree crops
- e. Harvest timing & quality per crop - Sugarcane
- f. Harvest timing & quality per crop - Banana
- g. After harvest

PART VI - Other inputs - After Harvest

- a. Input costs
- b. Abiotic stress
- c. Irrigation

See all questionnaires in external materials tab

## data\_processing

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## DATA EDITING

Data processing:

Kynetec uses SPSS (Statistical Package for the Social Sciences) for data entry, cleaning, analysis, and reporting. After collection, the farm data is entered into a local database, reviewed, and quality-checked by the local Kynetec agency. In the case of missing values or inconsistencies, farmers are re-contacted. In some cases, grower data is verified with local experts (e.g. retailers) to ensure data accuracy and validity. After country-level cleaning, the farm-level data is submitted to the global Kynetec headquarters for processing. In the case of missing values or inconsistencies, the local Kynetec office was re-contacted to clarify and solve issues.

## Quality assurance

Various consistency checks and internal controls are implemented throughout the entire data collection and reporting process in order to ensure unbiased, high quality data.

- Screening: Each grower is screened and selected by Kynetec based on cluster-specific criteria to ensure a comparable group of growers within each cluster. This helps keeping variability low.
- Evaluation of the questionnaire: The questionnaire aligns with the global objective of the project and is adapted to the local context (e.g. interviewers and growers should understand what is asked). Each year the questionnaire is evaluated based on several criteria, and updated where needed.

- Briefing of interviewers: Each year, local interviewers - familiar with the local context of farming -are thoroughly briefed to fully comprehend the questionnaire to obtain unbiased, accurate answers from respondents.
- Cross-validation of the answers:
  - o Kynetec captures all growers' responses through a digital data-entry tool. Various logical and consistency checks are automated in this tool (e.g. total crop size in hectares cannot be larger than farm size)
  - o Kynetec cross validates the answers of the growers in three different ways:
    1. Within the grower (check if growers respond consistently during the interview)
    2. Across years (check if growers respond consistently throughout the years)
    3. Within cluster (compare a grower's responses with those of others in the group)
  - o All the above mentioned inconsistencies are followed up by contacting the growers and asking them to verify their answers. The data is updated after verification. All updates are tracked.
- Check and discuss evolutions and patterns: Global evolutions are calculated, discussed and reviewed on a monthly basis jointly by Kynetec and Syngenta.
- Sensitivity analysis: sensitivity analysis is conducted to evaluate the global results in terms of outliers, retention rates and overall statistical robustness. The results of the sensitivity analysis are discussed jointly by Kynetec and Syngenta.
- It is recommended that users interested in using the administrative level 1 variable in the location dataset use this variable with care and crosscheck it with the postal code variable.

## data\_appraisal

### DATA APPRAISAL

Due to the above mentioned checks, irregularities in fertilizer usage data were discovered which had to be corrected:

For data collection wave 2014, respondents were asked to give a total estimate of the fertilizer NPK-rates that were applied in the fields. From 2015 onwards, the questionnaire was redesigned to be more precise and obtain data by individual fertilizer products. The new method of measuring fertilizer inputs leads to more accurate results, but also makes a year-on-year comparison difficult. After evaluating several solutions to this problems, 2014 fertilizer usage (NPK input) was re-estimated by calculating a weighted average of fertilizer usage in the following years.

## Access policy

### CONTACTS

Name	Affiliation	Email	URL
The Good Growth Plan team	Syngenta	goodgrowthplan.data@syngenta.com	<a href="#">Link</a>

### CONFIDENTIALITY

The users shall not take any action with the purpose of identifying any individual entity (i.e. person, household, enterprise, etc.) in the micro dataset(s). If such a disclosure is made inadvertently, no use will be made of the information, and it will be reported immediately to FAO.

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### CITATION REQUIREMENTS

The Good Growth Plan Progress Data - Productivity 2019

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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.

## Metadata production

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### DDI DOCUMENT ID

DDI\_ZMB\_2014-2019\_GGP-P\_v01\_M\_v01\_A\_OCS

### PRODUCERS

Name	Abbreviation	Affiliation	Role
Office of Chief Statistician	OCS	Food and Agriculture Organization	Metadata producer
Development Economics Data Group	DECDG	The World Bank	Metadata adapted for World Bank Microdata Library

### DDI DOCUMENT VERSION

Version 01 (November 2022): This metadata was downloaded from the FAO website (<https://microdata.fao.org/index.php/catalog>) and it is identical to FAO version (ZMB\_2014-2019\_GGP-P\_v01\_EN\_M\_A\_OCS). The following two metadata fields were edited - Document ID and Survey ID.

**data\_dictionary**

<b>Data file</b>	<b>Cases</b>	<b>variables</b>
<b>fertilizers</b>	0	17
<b>seed_treatment</b>	0	14
<b>Farm_level_data</b>	0	32
<b>Global_farm_data</b>	0	233
<b>Crop_protection</b>	0	32
<b>Location</b>	0	19
<b>Activities and Machinery (Q382)</b>	0	9





**Data file: fertilizers**

Cases: 0

variables: 17

**variables**

ID	Name	Label	Question
V1	harvestyear	Data collection wave	
V2	GrowingArea	To which field/plot does the information relate to?	
V3	ClusterID	Unique cluster ID	
V4	country	Country	
V5	Farmtype	Farm Type	
V6	GrowerID	Unique respondent ID	
V7	product	Unique code of a product that was applied	
V8	crop	The crop of focus	
V9	q229ca	Q229C a. Timing of (fertilizer) application AREA A	
V10	q229cb	Q229C b. Type of product	
V11	q229cd	Q229C d. Dosage (in KG/HECT or LITER/HECT)	
V12	q229ce	Q229C e. Unit of quantity	
V13	q229cf	Q229C f. Amount of H2O solved in LITERS per HECT	
V14	q229cg	Q229C g. Percentage N (in %)	
V15	q229ch	Q229C h. Percentage P (P2O5) (in %)	
V16	q229ci	Q229C i. Percentage K (K2O) (in %)	
V17	q229cj	Q229C j. Equipment type	

total: 17

**Data file: seed\_treatment**

Cases:	0
variables:	14

**variables**

ID	Name	Label	Question
V18	harvestyear	Data collection wave	
V19	GrowingArea	To which field/plot does the information relate to?	
V20	ClusterID	Unique cluster ID	
V21	country	Country	
V22	Farmtype	FARMTYPE	
V23	GrowerID	Unique respondent ID	
V24	product	Unique code of a product that was applied	
V25	crop	The crop of focus	
V26	q73	What is the amount of seeds in <KG> that has been sown per <HECT> ?	
V27	q233c_c2	Q233C. c2. Brand product formulation	
V28	c233c_c	CODED VARIABLE - stringcode	
V29	c233ca1	CODED VARIABLE - active ingredient1	
V30	q233c_g	Q233C. g. PRODUCT 1: Pest/disease/ weed targeted	
V31	syngenta	CODED VARIABLE Syngenta product? (1 = YES; 0 = NO)	

total: 14

**Data file: Farm\_level\_data**

Cases: 0

variables: 32

**variables**

ID	Name	Label	Question
V32	HarvestYear	Data collection wave	
V33	Region	Syngenta's definition of Region	
V34	Territory	Syngenta's definition of Territory	
V35	GrowingArea	To which field/plot does the information relate to?	
V36	ClusterID	Unique cluster ID	
V37	country	Country	
V38	Farmtype	Farm type	
V39	GrowerID	Unique respondent ID	
V40	Crop	The crop of focus	
V41	AreaSize	Q57. Size of growing area A for <TARG1> in <HECT>	
V42	CropSize	Q5.Total cultivated area of <TARG1> in this season in <HECT>	
V43	FarmSize	Q6. Total size of your farm/cultivated area for all crops in <HECT>	
V44	Landproductivity	Land efficiency in ton/ha	
V45	PesticideApplicationEfficiency	Number of field applications used per ton produced	
V46	NutrientEfficiency	Kgs of nitrogen used per ton produced	
V47	PhosphorusEfficiency	Kgs of phosphorus used per ton produced	
V48	PotassiumEfficiency	Kgs of potassium used per ton produced	
V49	SeedEfficiency	Kgs of seeds used per ton produced	
V50	PesticideEfficiency	Kgs of active ingredients from pesticides used in kilogram per ton produced	
V51	HerbicideEfficiency	Kgs of active ingredients from herbicides used per ton produced	
V52	FungicideEfficiency	Kgs of active ingredients from fungicides used per ton produced	
V53	InsecticideEfficiency	Kgs of active ingredients from insecticides used per ton produced	
V54	IrrigationWaterEfficiency	Litres of irrigation water used per ton produced	
V55	LaborEfficiency	Amount of labor hours per unit of crop output produced	
V56	MachineryEfficiency	Amount of machinery used in hours per unit of crop output produced	
V57	SyngentaShare	Percentage of syngenta products used compared to total number of products used	
V58	User_vs_non_user	Does the grower use Syngenta products?	
V59	protocol	have received a crop program and/or any recommendations this season?	
V60	field_preparation	Date of first field preparation	
V61	planting_date	Date of sowing or planting	
V62	harvest_begin	Date when harvest started	
V63	harvest_end	Date when harvest ended	

total: 32

**Data file: Global\_farm\_data**

Cases:	0
variables:	233

**variables**

ID	Name	Label	Question
V64	Territory	Syngenta definition of territory (sub-region)	
V65	country	Country	
V66	ClusterID	Unique cluster ID	
V67	GrowerID	Unique respondent ID	
V68	GrowingArea	To which field/plot does the information relate to?	
V69	Farmtype	Farmtype	
V70	q1c3	Q1.C3. Since you have participated before, we'd like to share with you your individual performance report	
V71	q1f	Q1. F. Would it be okay for you for Syngenta to contact you with follow-up information on The Good Growth Plan?	
V72	crop	Crop of focus	
V73	q57a	Q57A. How certain you are of the size indication for growing area A?	
V74	q4055	Q4055. TON/HEC Yield objective for area A for <CROP> at beginning of this season?	
V75	q19	Q19. Surname	
V76	q20	Q20. First name	
V77	q21	Q21. Phone number	
V78	q22	Q22. E-mail address	
V79	q27	Q27. Year of birth	
V80	q28	Q28. Gender	
V81	q31	Q31. Until what age did you go to school?	
V82	q30	Q30. Are you a full-time or part-time farmer?	
V83	q30b	Q30. B. How long have you been engaged in farming activities?	
V84	q33	Q33. Did you receive an agronomical/agricultural education?	
V85	q34	Q34. Are you a member of a producer group, association or cooperative for <CROP>?	
V86	q35c	Q35. C. Overall, how satisfied would you say you are with your life these days?	
V87	q37a	Q37.A. Do you have signs of soil erosion by water on	
V88	q37b	Q37.B. Do you have signs of soil erosion by wind on your farm?	
V89	q7001	Q7001. Have you changed your tillage practices for <TARGET CROP> in the past 20 years?	
V90	q7002	Q7002. How did you change your tillage practices for <TARGET CROP>?	
V91	q7003	Q7003. How many years ago did you change your tillage practices for <TARGET CROP>?	
V92	q7004	Q7004. Have you grown cover crop to manage soil health in the past 20 years for <CROP>?	
V93	q7005	Q7005. How many years ago did you start growing a cover crop for <TARGET CROP> ?	
V94	q7006	Q7006 Have you stopped growing a cover crop in the past 20 years for <TARGET CROP>?	
V95	q7007	Q7007. How many years ago did you stop growing a cover crop for <TARGET CROP>?	
V96	q7008	Q7008. For <Crop> was any land converted from arable land/grassland/forest in the past 20 years?	
V97	q7009	Q7009. How did the use of your land change for <TARGET CROP>?	
V98	q7010	Q7010. How many years ago did the function of your land change for <TARGET CROP>?	
V99	q65	Q65. Do you practice intercropping for <TARGET CROP> ?	

ID	Name	Label	Question
V100	q66_2	Q66. Which crops do you intercrop? Banana	
V101	q66_6	Q66. Which crops do you intercrop? Coffee	
V102	q66_7	Q66. Which crops do you intercrop? Corn	
V103	q66_8	Q66. Which crops do you intercrop? Cotton	
V104	q66_11	Q66. Which crops do you intercrop? Pear	
V105	q66_13	Q66. Which crops do you intercrop? Potato	
V106	q66_15	Q66. Which crops do you intercrop? Soybean	
V107	q66_17	Q66. Which crops do you intercrop? Sugarcane	
V108	q66_18	Q66. Which crops do you intercrop? Sunflower	
V109	q66_19	Q66. Which crops do you intercrop? Tomato	
V110	q66_20	Q66. Which crops do you intercrop? Watermelon	
V111	q66_32	Q66. Which crops do you intercrop? Cassava	
V112	q66_40	Q66. Which crops do you intercrop? Cover crop	
V113	q66_43	Q66. Which crops do you intercrop? Eggplant	
V114	q66_47	Q66. Which crops do you intercrop? Flowers	
V115	q66_55	Q66. Which crops do you intercrop? Kale	
V116	q66_56	Q66. Which crops do you intercrop? Lady finger (Okra)	
V117	q66_61	Q66. Which crops do you intercrop? Mango	
V118	q66_64	Q66. Which crops do you intercrop? Nuts	
V119	q66_67	Q66. Which crops do you intercrop? Onion	
V120	q66_70	Q66. Which crops do you intercrop? Other potatoes	
V121	q66_75	Q66. Which crops do you intercrop? Passion fruit	
V122	q66_80	Q66. Which crops do you intercrop? Pulses (lentils, beans, peas)	
V123	q66_81	Q66. Which crops do you intercrop? Pumpkin/squash	
V124	q66_96	Q66. Which crops do you intercrop? Other specify 1	
V125	q66_97	Q66. Which crops do you intercrop? Other specify 2	
V126	q66_99	Q66. Which crops do you intercrop? Don't know/no answer	
V127	q60	Q60. Do you rotate crops on growing area A for <TARGET CROP>?	
V128	q61_7	Q61. What crops are you cultivating in rotation? Corn	
V129	q61_8	Q61. What crops are you cultivating in rotation? Cotton	
V130	q61_11	Q61. What crops are you cultivating in rotation? Pear	
V131	q61_13	Q61. What crops are you cultivating in rotation? Potato	
V132	q61_15	Q61. What crops are you cultivating in rotation? Soybean	
V133	q61_17	Q61. What crops are you cultivating in rotation? Sugarcane	
V134	q61_18	Q61. What crops are you cultivating in rotation? Sunflower	
V135	q61_19	Q61. What crops are you cultivating in rotation? Tomato	
V136	q61_20	Q61. What crops are you cultivating in rotation? Watermelon	
V137	q61_43	Q61. What crops are you cultivating in rotation? Eggplant	
V138	q61_64	Q61. What crops are you cultivating in rotation? Nuts	
V139	q61_70	Q61. What crops are you cultivating in rotation? Other potatoes	
V140	q61_80	Q61. What crops are you cultivating in rotation? Pulses (lentils, beans, peas)	
V141	q61_81	Q61. What crops are you cultivating in rotation? Pumpkin/squash	
V142	q61_96	Q61. What crops are you cultivating in rotation? Other. Specify 1	
V143	q61_97	Q61. What crops are you cultivating in rotation? Other. Specify 2	
V144	q67	Q67. What is the soil type of growing area A for <TARGET CROP>?	

ID	Name	Label	Question
V145	q67b	Q67B. Texture is your soil on growing area A for <TARGET CROP> this season?	
V146	q7011	Q7011. How moist would rate your soil on growing area A for <TARGET CROP> this season?	
V147	q7012	Q7012 Rate the drainage of water through the soil on area A for <TARGET CROP> this season?	
V148	q55e1	Q55E1.Partook in training/meeting on crop/agricultural practices in the past 2 years?	
V149	q5500	Q5500. During the training/meeting, at least 15 minutes talking about safe-use practices	
V150	q55E2_1	Q55E2. Who organized this training? Syngenta representative	
V151	q55E2_3	Q55E2. Who organized this training? Extension officer	
V152	q55E2_4	Q55E2. Who organized this training? Cooperative	
V153	q55E2_5	Q55E2. Who organized this training? Agronomist/advisor	
V154	q55E2_6	Q55E2. Who organized this training? Supplier	
V155	q55E2_7	Q55E2. Who organized this training? Governmental organization (e.g. Ministry)	
V156	q5501	Q5501. Have you been contacted by a Syngenta representative during the past season?	
V157	q5502_1	Q5502. Can you describe how the Syngenta representative contacted you? Demonstration day	
V158	q5502_2	Q5502. Can you describe how the Syngenta representative contacted you? They visited my farm	
V159	q5502_3	Q5502. Can you describe how the Syngenta representative contacted you? Received a brochure	
V160	q5502_4	Q5502. Can you describe how the Syngenta representative contacted you? Phone call	
V161	q5502_96	Q5502. Can you describe how the Syngenta representative contacted you? Other specify 1:	
V162	q5503	Q5503. How useful was contact with the Syngenta Representative	
V163	q4041a	Q4041.A. Do you feel the need to follow training on crop cultivation in the near future?	
V164	q54_1	Q54. Where do you deposit the rest water after spraying? Citerne (phytobac, heliosecc, sentinel, biofilter)	
V165	q54_2	Q54. Where do you deposit the rest water after spraying? In fields	
V166	q54_3	Q54. Where do you deposit the rest water after spraying? In rivers, streams, drain or via the ditch	
V167	q54_96	Q54. Where do you deposit the rest water after spraying? Other specify 1:	
V168	q54_99	Q54. Where do you deposit the rest water after spraying? Don't know / no answer	
V169	q54_oth1	Q54. Other 1:: Q54. Where do you deposit the rest water after spraying?	
V170	q55a_1	Q55a. Where do you clean your sprain equipment? On farm	
V171	q55b_1	Q55b. Where do you dispose the water used for cleaning you equipment? On field	
V172	q55b_2	Q55b. Where do you dispose the water used for cleaning you equipment? Citerne	
V173	q55b_3	Q55b. Where do you dispose the water used for cleaning you equipment? On an unpaved surface	
V174	q55b_4	Q55b. Where do you dispose the water used for cleaning you equipment? On a paved surface (drain / dike)	
V175	q55b_96	Q55b. Where do you dispose the water used for cleaning you equipment? Other specify 1:	
V176	q55b_99	Q55b. Where do you dispose the water used for cleaning you equipment? Don't know / no answer	
V177	q55c	Q55. C. Do you store the sprayer protected from rain?	
V178	q55d	Q55. D. Do you use drift-reducing nozzles on your sprayer?	
V179	q72	Q72. When did the first field preparation start for growing area A for <TARGET CROP> ?	
V180	q73	Q73. KGs/HECT of seeds sown for growing area A for <TARGET CROP>	
V181	q74	Q74. When was the crop sown / planted for growing area A for <TARGET CROP>?	
V182	q7400	Q7400. Have you sown/planted <TARGET CROP> in the same period as last year?	
V183	q231b	Q231B. Are your seeds coated with crop protection products?	

ID	Name	Label	Question
V184	q233	Q233. Do you use on-farm or pre-treated seed treatment to treat the seeds for growing area A for <TARGET CROP>?	
V185	q397new	Q397_NEW. If you have received a crop program and/or any recommendations for growing to implement this season.	
V186	q224a	Q224 A. Did you perform a soil test for <TARGET CROP>?	
V187	q224	Q224. Do you apply organic fertilizers for <TARGET CROP>?	
V188	q226	Q226. Do you apply chemical fertilizers for <TARGET CROP>?	
V189	q229b1	Q229B1.Total number of applications you perform with chemical fertilizers on growing area for <TARGET CROP>?	
V190	q229b2	Q229B2.Total number of applications you perform with organic fertilizers on growing area for <TARGET CROP>?	
V191	q240e_1	Q240E. We would like to better understand the pest pressure on the selected growing areas. INSECT PRESSURE	
V192	q240e_2	Q240E. We would like to better understand the pest pressure on the selected growing areas. DISEASE PRESSURE	
V193	q240e_3	Q240E. We would like to better understand the pest pressure on the selected growing areas. WEED PRESSURE	
V194	q240en	Q240.E1. Do you generally use drift-reducing nozzles on your sprayer?	
V195	q240d	Q240D. Note down the total number of treatments you perform with crop protection products	
V196	q75	Q75. What is the final stand i.e. the number of plants - per <SQUARE METER>/<TARGET CROP>?	
V197	q76	Q76. Prior to harvest, indicate the percentage of the plot area that is lodged for <TARGET CROP>?	
V198	q243a	Q243. When was the harvest period for <TARGET CROP>?	
V199	q243b	Q243. When was the harvest period for <TARGET CROP>?	
V200	q243bb	Q243b. Have you harvested <TARGET CROP> in the same period as last year?	
V201	q274a	Q274. Yield that has been achieved for growing area A for corn in <TON> per <HECTARES>? Grain yield	
V202	q274b	Q274. Yield that has been achieved for growing area A for corn in <TON> per <HECTARES>? Silage yield	
V203	q274c	Q274. Yield that has been achieved for growing area A for corn in <TON> per <HECTARES>? Cobs yield	
V204	q4094_1	Q4094. Who measured the yield on each of the growing areas? Myself	
V205	q4094_2	Q4094. Who measured the yield on each of the growing areas? Dealer/store	
V206	q4094_3	Q4094. Who measured the yield on each of the growing areas? Manufacturer/representative	
V207	q4094_4	Q4094. Who measured the yield on each of the growing areas? Independent advisor	
V208	q4094_5	Q4094. Who measured the yield on each of the growing areas? Cooperative	
V209	q4094_98	Q4094. Who measured the yield on each of the growing areas? Other specify3	
V210	q4095a	Q4095. A. Compared to previous year, would you say your yield has ...?	
V211	q4096a	Q4096. A. How satisfied are you with your yield this season?	
V212	q4097a	Q4097. A. How satisfied are you with the price you received on the market?	
V213	q251	Q251. % of crop damaged at the time of harvest (total lost - not marketable) for <TARGET CROP>?	
V214	q360a	Q360. When was the harvest period for <TARGET CROP>?	
V215	q360b	Q360. When was the harvest period for <TARGET CROP>?	
V216	q319a	Q319. When was the harvest period for sugarcane?	
V217	q319b	Q319. When was the harvest period for sugarcane?	
V218	q339a	Q339. When was the harvest period for banana?	
V219	q339b	Q339. When was the harvest period for banana?	

ID	Name	Label	Question
V220	q246_1	Q246. % of the harvest of your target crop is used for own consumption	
V221	q246_2	Q246. % of the harvest of your target crop is used for feeding livestock	
V222	q246_3	Q246. % of the harvest of your target crop is used for harvest sold	
V223	q4002	Q4002. Did you take measures to prevent post-harvest loss for <TARGET CROP>?	
V224	q7013	Q7013. How do you deal with crop residue of <TARGET CROP>?	
V225	q377	Q377. What is the estimated revenue in <DOLLAR>/<HECTARES> for growing area A of <TARGET CROP>?	
V226	q378	Q378. Could you please indicate the estimated revenue in general? <DOLLAR>/<HECTARES>.	
V227	q379	Q379.A Can you please explain your answer for <TARGET CROP>?	
V228	q380	Q380. What is your total input cost for <TARGET CROP> from first field preparation until harvest?	
V229	q4111_1	Q4111. Actual costs SEEDS for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V230	q4111_2	Q4111. Actual costs FERTILIZERZ for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V231	q4111_3	Q4111. Actual costs LABOR for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V232	q4111_4	Q4111. Actual costs MACHINERY <TARGET CROP>?<DOLLAR>/<HECTARES>	
V233	q4111_5	Q4111. Actual costs WATER USE for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V234	q4111_6	Q4111. Actual costs FUEL for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V235	q4111_7	Q4111. Actual costs RENT/LOAN for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V236	q4111_8	Q4111. Actual costs FUNGICIDES for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V237	q4111_9	Q4111. Actual costs HERBICIDES for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V238	q4111_10	Q4111. Actual costs INSECTICIDES <TARGET CROP>?<DOLLAR>/<HECTARES>	
V239	q4111_98	Q4111. Actual costs DRYING for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V240	q381_1	Q381. Percentage of TREES/SEED costs out of the total input cost for <TARGET CROP>?	
V241	q381_2	Q381. Percentage of FERTILIZERS costs out of the total input cost for <TARGET CROP>?	
V242	q381_3	Q381. Percentage of PESTICIDES costs out of the total input cost for <TARGET CROP>?	
V243	q381_4	Q381. Percentage of LABOR costs out of the total input cost for <TARGET CROP>?	
V244	q381_5	Q381. Percentage of MACHINERY costs of the total input cost for <TARGET CROP>?	
V245	q381_6	Q381. Percentage of WATER USE costs out of the total input cost for <TARGET CROP>?	
V246	q381_7	Q381. Percentage of FUEL costs out of the total input cost for <TARGET CROP>?	
V247	q381_8	Q381. Percentage of ELECTRICITY costs out of the total input cost for <TARGET CROP>?	
V248	q381_9	Q381. Percentage of GAS costs out of the total input cost for <TARGET CROP>?	
V249	q381_10	Q381. Percentage of RENT/LOAN costs out of the total input cost for <TARGET CROP>?	
V250	q381_98	Q381. Percentage of OTHER costs out of the total input cost for <TARGET CROP>?	
V251	q4121	Q4121. In general for the whole cultivation period, rate the weather conditions for <TARGET CROP>?	
V252	q387_1	Q387. What was the impact for target crop? Reduced yield	
V253	q387_2	Q387. What was the impact for target crop? Reduced yield quality	
V254	q387_3	Q387. What was the impact for target crop? No impact	
V255	q388	Q388. How would you say the level of rainfall was for growing area A	
V256	q388b	Q388. B. You mentioned you had less rainfall this season than usual. Was this problematic?	
V257	q388d	Q388D. You mentioned you had more rainfall this season than usual. Was this problematic?	
V258	q3880	Q3880. How would you say the temperature was during this season ?	
V259	q3880b	Q3880 B. You mentioned you had lower temperatures this season than usual. Was this problematic?	
V260	q3880d	Q3880 D. You mentioned you had higher temperatures this season than usual. Was this problematic?	



ID	Name	Label	Question
V261	q389	Q389. What is the MAIN water source of <TARGET CROP> during this season?	
V262	q390	Q390. What is the number of days you have been irrigating <TARGET CROP>?	
V263	q391	Q391. What is the average amount of hours per day you have been irrigating of <TARGET CROP>?	
V264	q392	Q392. What is the amount of liters that is discharged per hour of <TARGET CROP>?	
V265	q399c	Q399.C. How satisfied are you with the crop program and/or recommendations for <TARGET CROP>?	
V266	date1	field preparation	
V267	date2	sowing/planting	
V268	date3a	begin harvest	
V269	date3b	end harvest	
V270	harvestyear	Data collection wave	
V271	q215	Q215. When did the first field preparation start for cauliflower?	
V272	q218	Q218. When have the young plants been planted for cauliflower?	
V273	q4000_1	q4000_1. To whom do you sell your yield - I sell it on the local market	
V274	q4000_2	q4000_2. To whom do you sell your yield - I sell it to a trader	
V275	q4000_3	q4000_3. To whom do you sell your yield - I sell it to a wholesaler	
V276	q4000_4	q4000_4. To whom do you sell your yield - I sell it to a feed processing plant	
V277	q4000_5	q4000_5. To whom do you sell your yield - I sell it to a cooperative I am part of	
V278	q4000_6	q4000_6. To whom do you sell your yield -I sell it under a contract	
V279	q4000_7	q4000_7. To whom do you sell your yield -Government owned rural collection center	
V280	q399	Q399. Please explain why you follow or do not follow the crop program and/or recommendations.	
V281	q397	Q397. Received a recommended growing protocol or crop program from an agricultural advisor?	
V282	q397c	Q397C. Did you receive a protocol/crop program from Syngenta?	
V283	q397d_oth	Q397.D. From which manufacturer have you received a protocol/crop program? OTHER	
V284	q35a_1	Q35.A. What group/association/cooperative are a member of? 1ST	
V285	q35a_2	Q35.A. What group/association/cooperative are a member of? 2ND	
V286	q35a_3	Q35.A. What group/association/cooperative are a member of? 3RD	
V287	q58	Q58. In general, what is the topography of your growing area?	
V288	q58oth	Q58. In general, what is the topography of your growing area? OTHER	
V289	q230_1	Bought seeds	
V290	q230_2	Saved seeds	
V291	q4001	Q4001. % of crop lost in-between harvest and storage or selling <TARG1>?	
V292	q147	Q147. When have the young plants been planted ?	
V293	q247_1a	Q247. BUYER 1 % of yield	
V294	q247_2a	Q247. BUYER 2 % of yield	
V295	q247_1b	Q247. BUYER 1 price per metric ton	
V296	q247_2b	Q247. BUYER 2 price per metric ton	

total: 233

**Data file: Crop\_protection**

Cases: 0

variables: 32

**variables**

ID	Name	Label	Question
V297	harvestyear	Data collection wave	
V298	GrowingArea	To which field/plot does the information relate to?	
V299	ClusterID	Unique cluster ID	
V300	country	Country	
V301	Farmtype	FARMTYPE	
V302	GrowerID	Unique respondent ID	
V303	product	Unique code of a product within application	
V304	crop	The crop of focus	
V305	application	Unique code of an application per field per grower	
V306	q241a	Q241 a. Timing of product application	
V307	q241b	Q241 b.Type of product	
V308	q241c	Q241 c . Brand product name	
V309	q241c1	Q241 c1. Brand product formulation	
V310	c241c	CODED VARIABLE - stringcode	
V311	c241ca1	CODED VARIABLE - active ingredient1	
V312	c241cp1	CODED VARIABLE - amount of ai1	
V313	c241cu1	CODED VARIABLE - unit (% or Gr)	
V314	c241ca2	CODED VARIABLE - active ingredient2	
V315	c241cp2	CODED VARIABLE - amount of ai2	
V316	c241ca3	CODED VARIABLE - active ingredient3	
V317	c241cp3	CODED VARIABLE - amount of ai3	
V318	c241cpt	CODED VARIABLE - total amount of ai	
V319	q241d	CODED VARIABLE Q241 d. Dosage ?	
V320	q241e	CODED VARIABLE Q241 e. Unit of quantity	
V321	q241f	Q241 f. Amount of H2O solved in LITERS per <HECTARE>	
V322	q241g	Q241 g. Pest/disease/ weed targeted ?	
V323	q241h	Q241 h. Level of pest/ disease/ weed pressure	
V324	q241i	Q241 i. Percentage of the area treated against pests/ diseases/ weeds	
V325	q241j	Q241 j. Percentage of crop free of pests/ diseases/ weeds at harvest (in %)	
V326	q241k	Q241 k. Equipment type ?	
V327	q241n	Q241 n. What is the timing of the treatment - before crop-emergence or after crop-emergence	
V328	syngenta	CODED VARIABLE Syngenta product? (1 = YES; 0 = NO)	

total: 32

**Data file: Location**

Cases:	0
variables:	19

**variables**

ID	Name	Label	Question
V329	harvestyear	Year in which the data was collected	
V330	country	Country	
V331	ClusterID	Unique identifier per cluster	
V332	GrowerID	Unique identifier per grower	
V333	GrowingArea	Field code (A or B)	
V334	CORNER	Multiple corners of same field can be registered (only from 2018 onwards)	
V335	gps_option	gps_option	
V336	gps_shape	Description of the field (from 2018 onwards)	
V337	q22d_lat_deg	Latitude degrees	
V338	q22d_lat_min	Latitude minutes	
V339	q22d_lat_sec	Latitude seconds	
V340	q22d_lon_deg	Longitude degrees	
V341	q22d_lon_min	Longitude minutes	
V342	q22d_lon_sec	Longitude seconds	
V343	remark_area	Remark from the interviewer (2019 onwards)	
V344	q151	Q151. Open field or in a greenhouse?	
V345	q1f	Q1. F. Would it be okay for you for this company to contact you with information on The GGP?	
V346	q25	Q25. Farm address - postal code	
V347	admin_level_1	administrative area 1	

total: 19

**Data file: Activities and Machinery (Q382)**

Cases: 0

variables: 9

**variables**

ID	Name	Label	Question
V348	harvestyear	Year in which the data was collected	
V349	country	Country	
V350	crop	Crop	
V351	ClusterID	Unique identifier per cluster	
V352	farmtype	Reference farms versus Benchmark farms	
V353	GrowerID	Unique identifier per grower	
V354	GrowingArea	Field code (A or B)	
V355	activity	Which activities did the grower do on his field?	
V356	Machinery	Did he use power driven equipment to complete this activity?	

total: 9



**HARVESTYEAR: Data collection wave****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 2015 - 2019 Format: Numeric

**Q229CB: Q229C b.Type of product****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Chemical fertilizer
2	Organic fertilizer

**GROWINGAREA: To which field/plot does the information relate to?****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	A

**CLUSTERID: Unique cluster ID****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
ZambiaMaize1	ZambiaMaize1
ZambiaMaize1+2+3	ZambiaMaize1+2+3
ZambiaMaize2	ZambiaMaize2
ZambiaMaize3	ZambiaMaize3

### **COUNTRY: Country**

Data file: fertilizers

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
Zambia	Zambia

### **FARMTYPE: Farm Type**

Data file: fertilizers

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
BF	BF
RF	RF

### **GROWERID: Unique respondent ID**

Data file: fertilizers

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

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### CATEGORIES

Value	Category
44100100	44100100
44100200	44100200
44100300	44100300
44100400	44100400
44100500	44100500
44100600	44100600
44100700	44100700
44100800	44100800
44100900	44100900
44102700	44102700
44103400	44103400
44106500	44106500
44106600	44106600
44106700	44106700
44106800	44106800
44106900	44106900
44107000	44107000
44107100	44107100
44107200	44107200
44201000	44201000
44201100	44201100
44201200	44201200
44201300	44201300
44201400	44201400
44201500	44201500
44201600	44201600
44201700	44201700
44201800	44201800
44201900	44201900
44202000	44202000
44202100	44202100
44202200	44202200



44202300	44202300
44202400	44202400
44202500	44202500
44202600	44202600
44202900	44202900
44203000	44203000
44203100	44203100
44203200	44203200
44203300	44203300
44203500	44203500
44203600	44203600
44203700	44203700
44203800	44203800
44203900	44203900
44204000	44204000
44204100	44204100
44204200	44204200
44204300	44204300
44204400	44204400
44204600	44204600
44204700	44204700
44204800	44204800
44204900	44204900
44205000	44205000
44205100	44205100
44205200	44205200
44205300	44205300
44205400	44205400
44205500	44205500
44205600	44205600
44205700	44205700
44205800	44205800
44205900	44205900
44206000	44206000
44206100	44206100
44206200	44206200
44206300	44206300
44206400	44206400
44207500	44207500

44207600

44207600

**PRODUCT: Unique code of a product that was applied****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
1	1
2	2
3	3

**CROP: The crop of focus****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Corn	Corn

**Q229CA: Q229C a. Timing of (fertilizer) application AREA A****Data file: fertilizers****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
-------	----------

2014-09-01	2014-09-01
2014-09-15	2014-09-15
2014-09-30	2014-09-30
2014-10-01	2014-10-01
2014-10-15	2014-10-15
2014-10-30	2014-10-30
2014-10-31	2014-10-31
2014-11-01	2014-11-01
2014-11-07	2014-11-07
2014-11-10	2014-11-10
2014-11-11	2014-11-11
2014-11-15	2014-11-15
2014-11-17	2014-11-17
2014-11-19	2014-11-19
2014-11-20	2014-11-20
2014-11-22	2014-11-22
2014-11-30	2014-11-30
2014-12-01	2014-12-01
2014-12-10	2014-12-10
2014-12-15	2014-12-15
2014-12-18	2014-12-18
2014-12-20	2014-12-20
2014-12-21	2014-12-21
2014-12-25	2014-12-25
2014-12-30	2014-12-30
2014-12-31	2014-12-31
2015-01-01	2015-01-01
2015-01-02	2015-01-02
2015-01-15	2015-01-15
2015-01-20	2015-01-20
2015-01-30	2015-01-30
2015-02-01	2015-02-01
2015-02-02	2015-02-02
2015-02-15	2015-02-15
2015-02-20	2015-02-20
2016-08-15	2016-08-15
2016-08-24	2016-08-24
2016-09-06	2016-09-06
2016-09-10	2016-09-10

2016-09-15	2016-09-15
2016-09-20	2016-09-20
2016-09-27	2016-09-27
2016-10-01	2016-10-01
2016-10-10	2016-10-10
2016-10-15	2016-10-15
2016-10-17	2016-10-17
2016-10-20	2016-10-20
2016-10-22	2016-10-22
2016-11-07	2016-11-07
2016-11-10	2016-11-10
2016-11-15	2016-11-15
2016-11-18	2016-11-18
2016-11-20	2016-11-20
2016-11-22	2016-11-22
2016-11-25	2016-11-25
2016-11-26	2016-11-26
2016-11-27	2016-11-27
2016-11-30	2016-11-30
2016-12-01	2016-12-01
2016-12-05	2016-12-05
2016-12-06	2016-12-06
2016-12-10	2016-12-10
2016-12-12	2016-12-12
2016-12-15	2016-12-15
2016-12-17	2016-12-17
2016-12-20	2016-12-20
2016-12-22	2016-12-22
2016-12-25	2016-12-25
2016-12-27	2016-12-27
2016-12-28	2016-12-28
2017-09-20	2017-09-20
2017-09-25	2017-09-25
2017-10-10	2017-10-10
2017-11-01	2017-11-01
2017-11-15	2017-11-15
2017-11-20	2017-11-20
2017-11-28	2017-11-28
2017-11-30	2017-11-30

2017-12-05	2017-12-05
2017-12-15	2017-12-15
2017-12-18	2017-12-18
2017-12-23	2017-12-23
2017-12-30	2017-12-30
2018-01-01	2018-01-01
2018-01-08	2018-01-08
2018-01-11	2018-01-11
2018-01-15	2018-01-15
2018-01-16	2018-01-16
2018-01-20	2018-01-20
2018-01-30	2018-01-30
2018-02-01	2018-02-01
2018-02-05	2018-02-05
2018-02-14	2018-02-14
2018-02-15	2018-02-15
2018-02-27	2018-02-27
2018-02-28	2018-02-28
2018-09-03	2018-09-03
2018-09-28	2018-09-28
2018-09-30	2018-09-30
2018-11-12	2018-11-12
2018-11-15	2018-11-15
2018-11-25	2018-11-25
2018-12-10	2018-12-10
2018-12-12	2018-12-12
2018-12-14	2018-12-14
2018-12-18	2018-12-18
2018-12-20	2018-12-20
2018-12-22	2018-12-22
2019-01-01	2019-01-01
2019-01-03	2019-01-03
2019-01-08	2019-01-08
2019-01-09	2019-01-09
2019-01-10	2019-01-10
2019-01-11	2019-01-11
2019-01-14	2019-01-14
2019-01-15	2019-01-15
2019-01-18	2019-01-18

2019-01-22	2019-01-22
2019-02-02	2019-02-02
2019-02-03	2019-02-03
2019-02-05	2019-02-05
2019-02-08	2019-02-08
2019-02-10	2019-02-10
2019-02-15	2019-02-15

### Q229CD: Q229C d. Dosage (in KG/HECT or LITER/HECT)

Data file: fertilizers

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 400 Format: Numeric

### Q229CE: Q229C e. Unit of quantity

Data file: fertilizers

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

#### CATEGORIES

Value	Category
KG/HECT	KG/HECT

### Q229CF: Q229C f. Amount of H2O solved in LITERS per HECT

Data file: fertilizers

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 200 Format: Numeric

### Q229CG: Q229C g. Percentage N (in %)

Data file: fertilizers

#### Overview

Valid: 0 Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 10 - 46    Format: Numeric

---

### ■ Q229CH: Q229C h. Percentage P (P2O5) (in %)

**Data file: fertilizers**

#### Overview

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 0 - 23    Format: Numeric

---

### ■ Q229CI: Q229C i. Percentage K (K2O) (in %)

**Data file: fertilizers**

#### Overview

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 0 - 20    Format: Numeric

---

### ■ Q229CJ: Q229C j. Equipment type

**Data file: fertilizers**

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

#### Questions and instructions

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#### CATEGORIES

Value	Category
Hand operated sprayers (e.g. knapsack),	Hand operated sprayers (e.g. knapsack),
Other	Other

---

**HARVESTYEAR: Data collection wave****Data file:** seed\_treatment**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 2016 - 2019    Format: Numeric

**GROWINGAREA: To which field/plot does the information relate to?****Data file:** seed\_treatment**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
A	A

**CLUSTERID: Unique cluster ID****Data file:** seed\_treatment**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
ZambiaMaize1+2+3	ZambiaMaize1+2+3

**COUNTRY: Country****Data file:** seed\_treatment**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character



## Questions and instructions

### CATEGORIES

Value	Category
Zambia	Zambia

### FARMTYPE: FARMTYPE

Data file: seed\_treatment

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
BF	BF
RF	RF

### GROWERID: Unique respondent ID

Data file: seed\_treatment

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
44100600	44100600
44100700	44100700
44100800	44100800
44100900	44100900
44102700	44102700
44103400	44103400
44106500	44106500
44106600	44106600
44106700	44106700

44106800	44106800
44106900	44106900
44107000	44107000
44107100	44107100
44107200	44107200
44202900	44202900
44203000	44203000
44203100	44203100
44203200	44203200
44203500	44203500
44203600	44203600
44203700	44203700
44203800	44203800
44203900	44203900
44204200	44204200
44204300	44204300
44204400	44204400
44204800	44204800
44204900	44204900
44205000	44205000
44205100	44205100
44205200	44205200
44205600	44205600
44205700	44205700
44205800	44205800
44205900	44205900
44206000	44206000
44206100	44206100
44206200	44206200
44207500	44207500
44207600	44207600

**PRODUCT: Unique code of a product that was applied**

**Data file: seed\_treatment**

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
1	1

### CROP: The crop of focus

Data file: seed\_treatment

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
Corn	Corn

### Q73: What is the amount of seeds in that has been sown per ?

Data file: seed\_treatment

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 10 - 30 Format: Numeric

### Q233C\_C2: Q233C. c2. Brand product formulation

Data file: seed\_treatment

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
confidential	confidential

**C233C\_C: CODED VARIABLE - stringcode****Data file:** seed\_treatment**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
confidential	confidential

**C233CA1: CODED VARIABLE - active ingredient1****Data file:** seed\_treatment**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Do not know	Do not know

**Q233C\_G: Q233C. g. PRODUCT 1: Pest/disease/ weed targeted****Data file:** seed\_treatment**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Don't know / no answer	Don't know / no answer
dk	dk

**SYNGENTA: CODED VARIABLE Syngenta product? (1 = YES; 0 = NO)****Data file:** seed\_treatment**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 1    Format: Numeric

**Questions and instructions**

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## CATEGORIES

Value	Category
1	No

---

**HARVESTYEAR: Data collection wave****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 2014 - 2019 Format: Numeric

**REGION: Syngenta's definition of Region****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
eame	eame

**TERRITORY: Syngenta's definition of Territory****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
africa middle-east	africa middle-east

**GROWINGAREA: To which field/plot does the information relate to?****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
A	A
B	B

## CLUSTERID: Unique cluster ID

Data file: Farm\_level\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
zambiamaize1	zambiamaize1
zambiamaize1+2+3	zambiamaize1+2+3
zambiamaize2	zambiamaize2
zambiamaize3	zambiamaize3

## COUNTRY: Country

Data file: Farm\_level\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
Zambia	Zambia

## FARMTYPE: Farm type

Data file: Farm\_level\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
bf	bf
rf	rf

## GROWERID: Unique respondent ID

Data file: Farm\_level\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
44100100	44100100
44100200	44100200
44100300	44100300
44100400	44100400
44100500	44100500
44100600	44100600
44100700	44100700
44100800	44100800
44100900	44100900
44102700	44102700
44103400	44103400
44106500	44106500
44106600	44106600
44106700	44106700
44106800	44106800
44106900	44106900
44107000	44107000
44107100	44107100



44107200	44107200
44201000	44201000
44201100	44201100
44201200	44201200
44201300	44201300
44201400	44201400
44201500	44201500
44201600	44201600
44201700	44201700
44201800	44201800
44201900	44201900
44202000	44202000
44202100	44202100
44202200	44202200
44202300	44202300
44202400	44202400
44202500	44202500
44202600	44202600
44202800	44202800
44202900	44202900
44203000	44203000
44203100	44203100
44203200	44203200
44203300	44203300
44203500	44203500
44203600	44203600
44203700	44203700
44203800	44203800
44203900	44203900
44204000	44204000
44204100	44204100
44204200	44204200
44204300	44204300
44204400	44204400
44204500	44204500
44204600	44204600
44204700	44204700
44204800	44204800
44204900	44204900

44205000	44205000
44205100	44205100
44205200	44205200
44205300	44205300
44205400	44205400
44205500	44205500
44205600	44205600
44205700	44205700
44205800	44205800
44205900	44205900
44206000	44206000
44206100	44206100
44206200	44206200
44206300	44206300
44206400	44206400
44207500	44207500
44207600	44207600

## CROP: The crop of focus

Data file: Farm\_level\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
corn	corn

## AREASIZE: Q57. Size of growing area A for in

Data file: Farm\_level\_data

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 12 Format: Numeric

**CROPSIZE: Q5.Total cultivated area of in this season in****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 12 Format: Numeric

**FARMSIZE: Q6. Total size of your farm/cultivated area for all crops in****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 2 - 14 Format: Numeric

**LANDPRODUCTIVITY: Land efficiency in ton/ha****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0.6 - 5 Format: Numeric

**PESTICIDEAPPLICATIONEFFICIENCY: Number of field applications used per ton produced****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**NUTRIENTEFFICIENCY: Kgs of nitrogen used per ton produced****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 200 Format: Numeric

**PHOSPHORUSEFFICIENCY: Kgs of phosphorus used per ton produced****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 202 Format: Numeric

**POTASSIUM EFFICIENCY: Kgs of potassium used per ton produced****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 101 Format: Numeric

**SEED EFFICIENCY: Kgs of seeds used per ton produced****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 4 - 41.6666666666667 Format: Numeric

**PESTICIDE EFFICIENCY: Kgs of active ingredients from pesticides used in kilogram per ton produced****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.63404 Format: Numeric

**HERBICIDE EFFICIENCY: Kgs of active ingredients from herbicides used per ton produced****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.625 Format: Numeric

**FUNGICIDE EFFICIENCY: Kgs of active ingredients from fungicides used per ton produced****Data file:** Farm\_level\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.01839 Format: Numeric

**INSECTICIDE EFFICIENCY: Kgs of active ingredients from insecticides used per ton produced****Data file:** Farm\_level\_data

**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.123076923076923 Format: Numeric

**IRRIGATIONWATEREFFICIENCY: Litres of irrigation water used per ton produced****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 65217.3913043478 Format: Numeric

**LABOREFFICIENCY: Amount of labor hours per unit of crop output produced****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 3.16666666666667 - 214 Format: Numeric

**MACHINERYEFFICIENCY: Amount of machinery used in hours per unit of crop output produced****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 3.06666666666667 - 217.5 Format: Numeric

**SYNGENTASHARE: Percentage of syngenta products used compared to total number of products used****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 100 Format: Numeric

**USER\_VS\_NON\_USER: Does the grower use Syngenta products?****Data file: Farm\_level\_data****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	non-user
2	exclusive user
3	mixed user

## PROTOCOL: have received a crop program and/or any recommendations this season?

Data file: Farm\_level\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Did not receive any crop program
2	Received a complete crop program
3	Received recommendations but not a complete program

## FIELD\_PREPARATION: Date of first field preparation

Data file: Farm\_level\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2013-07-05	2013-07-05
2013-07-07	2013-07-07
2013-07-20	2013-07-20
2013-07-31	2013-07-31
2013-08-30	2013-08-30
2013-09-15	2013-09-15

2013-09-30	2013-09-30
2013-10-01	2013-10-01
2013-10-05	2013-10-05
2013-10-07	2013-10-07
2013-10-10	2013-10-10
2013-10-11	2013-10-11
2013-10-12	2013-10-12
2013-10-13	2013-10-13
2013-10-15	2013-10-15
2013-10-20	2013-10-20
2013-10-30	2013-10-30
2013-10-31	2013-10-31
2013-11-01	2013-11-01
2013-11-15	2013-11-15
2013-11-30	2013-11-30
2014-08-01	2014-08-01
2014-08-03	2014-08-03
2014-08-10	2014-08-10
2014-08-20	2014-08-20
2014-08-30	2014-08-30
2014-09-01	2014-09-01
2014-09-20	2014-09-20
2014-09-30	2014-09-30
2014-10-01	2014-10-01
2014-10-12	2014-10-12
2014-10-15	2014-10-15
2014-10-16	2014-10-16
2014-10-20	2014-10-20
2014-10-30	2014-10-30
2014-10-31	2014-10-31
2014-11-01	2014-11-01
2014-11-30	2014-11-30
2015-07-21	2015-07-21
2015-07-30	2015-07-30
2015-08-05	2015-08-05
2015-08-15	2015-08-15
2015-08-20	2015-08-20
2015-09-04	2015-09-04
2015-09-08	2015-09-08

2015-09-10	2015-09-10
2015-09-15	2015-09-15
2015-09-20	2015-09-20
2015-09-30	2015-09-30
2015-10-02	2015-10-02
2015-10-05	2015-10-05
2015-10-08	2015-10-08
2015-10-11	2015-10-11
2015-10-12	2015-10-12
2015-10-25	2015-10-25
2015-10-30	2015-10-30
2015-11-02	2015-11-02
2015-11-25	2015-11-25
2015-11-30	2015-11-30
2016-07-11	2016-07-11
2016-07-30	2016-07-30
2016-08-24	2016-08-24
2016-09-06	2016-09-06
2016-09-10	2016-09-10
2016-09-14	2016-09-14
2016-09-15	2016-09-15
2016-09-27	2016-09-27
2016-09-30	2016-09-30
2016-10-01	2016-10-01
2016-10-05	2016-10-05
2016-10-10	2016-10-10
2016-10-11	2016-10-11
2016-10-15	2016-10-15
2016-10-17	2016-10-17
2016-10-20	2016-10-20
2016-10-22	2016-10-22
2016-10-26	2016-10-26
2016-11-07	2016-11-07
2016-11-10	2016-11-10
2016-11-15	2016-11-15
2016-11-20	2016-11-20
2017-09-01	2017-09-01
2017-09-10	2017-09-10
2017-09-15	2017-09-15



2017-09-25	2017-09-25
2017-09-30	2017-09-30
2017-10-01	2017-10-01
2017-10-12	2017-10-12
2017-10-15	2017-10-15
2017-10-20	2017-10-20
2017-10-30	2017-10-30
2017-11-15	2017-11-15
2018-09-01	2018-09-01
2018-09-21	2018-09-21
2018-09-25	2018-09-25
2018-09-30	2018-09-30
2018-10-01	2018-10-01
2018-10-05	2018-10-05
2018-10-10	2018-10-10
2018-10-15	2018-10-15
2018-10-25	2018-10-25
2018-11-01	2018-11-01

## PLANTING\_DATE: Date of sowing or planting

Data file: Farm\_level\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
2013-10-30	2013-10-30
2013-10-31	2013-10-31
2013-11-01	2013-11-01
2013-11-02	2013-11-02
2013-11-03	2013-11-03
2013-11-11	2013-11-11
2013-11-15	2013-11-15
2013-11-20	2013-11-20
2013-11-30	2013-11-30

2013-12-01	2013-12-01
2013-12-15	2013-12-15
2013-12-23	2013-12-23
2013-12-31	2013-12-31
2014-10-20	2014-10-20
2014-11-01	2014-11-01
2014-11-05	2014-11-05
2014-11-10	2014-11-10
2014-11-11	2014-11-11
2014-11-15	2014-11-15
2014-11-20	2014-11-20
2014-11-30	2014-11-30
2014-12-01	2014-12-01
2014-12-15	2014-12-15
2014-12-19	2014-12-19
2014-12-20	2014-12-20
2014-12-30	2014-12-30
2015-01-01	2015-01-01
2015-02-01	2015-02-01
2015-02-22	2015-02-22
2015-10-24	2015-10-24
2015-10-28	2015-10-28
2015-10-30	2015-10-30
2015-11-10	2015-11-10
2015-11-15	2015-11-15
2015-11-20	2015-11-20
2015-11-28	2015-11-28
2015-11-30	2015-11-30
2015-12-01	2015-12-01
2015-12-02	2015-12-02
2015-12-05	2015-12-05
2015-12-10	2015-12-10
2015-12-15	2015-12-15
2015-12-20	2015-12-20
2016-11-05	2016-11-05
2016-11-10	2016-11-10
2016-11-14	2016-11-14
2016-11-15	2016-11-15
2016-11-20	2016-11-20

2016-11-22	2016-11-22
2016-11-23	2016-11-23
2016-11-25	2016-11-25
2016-11-27	2016-11-27
2016-11-30	2016-11-30
2016-12-01	2016-12-01
2016-12-05	2016-12-05
2016-12-10	2016-12-10
2016-12-12	2016-12-12
2016-12-15	2016-12-15
2016-12-17	2016-12-17
2016-12-18	2016-12-18
2017-11-10	2017-11-10
2017-11-15	2017-11-15
2017-12-01	2017-12-01
2017-12-06	2017-12-06
2017-12-10	2017-12-10
2017-12-15	2017-12-15
2017-12-18	2017-12-18
2017-12-20	2017-12-20
2018-11-12	2018-11-12
2018-11-15	2018-11-15
2018-11-20	2018-11-20
2018-12-01	2018-12-01
2018-12-05	2018-12-05
2018-12-10	2018-12-10
2018-12-11	2018-12-11
2018-12-15	2018-12-15
2018-12-20	2018-12-20
2018-12-21	2018-12-21
2018-12-22	2018-12-22
2018-12-28	2018-12-28

## **HARVEST\_BEGIN: Date when harvest started**

**Data file:** Farm\_level\_data

### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2014-04-01	2014-04-01
2014-04-03	2014-04-03
2014-04-10	2014-04-10
2014-04-11	2014-04-11
2014-04-15	2014-04-15
2014-04-25	2014-04-25
2014-04-30	2014-04-30
2014-05-01	2014-05-01
2014-05-05	2014-05-05
2014-05-15	2014-05-15
2014-05-20	2014-05-20
2014-05-31	2014-05-31
2014-06-01	2014-06-01
2014-06-03	2014-06-03
2014-06-14	2014-06-14
2014-06-15	2014-06-15
2014-06-30	2014-06-30
2014-07-01	2014-07-01
2014-07-15	2014-07-15
2014-07-30	2014-07-30
2014-07-31	2014-07-31
2015-02-15	2015-02-15
2015-04-30	2015-04-30
2015-05-01	2015-05-01
2015-05-10	2015-05-10
2015-05-11	2015-05-11
2015-05-15	2015-05-15
2015-05-20	2015-05-20
2015-05-30	2015-05-30
2015-05-31	2015-05-31
2015-06-01	2015-06-01
2015-06-10	2015-06-10
2015-06-15	2015-06-15
2015-06-30	2015-06-30
2015-07-01	2015-07-01

2015-07-15	2015-07-15
2015-07-20	2015-07-20
2015-08-01	2015-08-01
2015-08-15	2015-08-15
2015-08-20	2015-08-20
2015-08-21	2015-08-21
2016-04-10	2016-04-10
2016-05-01	2016-05-01
2016-05-10	2016-05-10
2016-05-15	2016-05-15
2016-05-16	2016-05-16
2016-05-18	2016-05-18
2016-05-25	2016-05-25
2016-05-30	2016-05-30
2016-06-02	2016-06-02
2016-06-05	2016-06-05
2016-06-13	2016-06-13
2016-06-15	2016-06-15
2016-06-25	2016-06-25
2016-06-26	2016-06-26
2016-07-05	2016-07-05
2017-05-01	2017-05-01
2017-05-02	2017-05-02
2017-05-03	2017-05-03
2017-05-04	2017-05-04
2017-05-05	2017-05-05
2017-05-06	2017-05-06
2017-05-10	2017-05-10
2017-05-13	2017-05-13
2017-05-15	2017-05-15
2017-05-20	2017-05-20
2017-05-25	2017-05-25
2018-05-01	2018-05-01
2018-05-05	2018-05-05
2018-05-06	2018-05-06
2018-05-07	2018-05-07
2018-05-10	2018-05-10
2018-05-15	2018-05-15
2018-05-18	2018-05-18

2018-05-20	2018-05-20
2018-05-25	2018-05-25
2018-05-30	2018-05-30
2018-06-04	2018-06-04
2019-04-01	2019-04-01
2019-04-05	2019-04-05
2019-04-10	2019-04-10
2019-04-15	2019-04-15
2019-04-22	2019-04-22
2019-04-28	2019-04-28
2019-04-30	2019-04-30
2019-05-01	2019-05-01
2019-05-04	2019-05-04
2019-05-09	2019-05-09
2019-05-10	2019-05-10
2019-05-15	2019-05-15
2019-05-20	2019-05-20
2019-05-30	2019-05-30

## **HARVEST\_END: Date when harvest ended**

**Data file:** Farm\_level\_data

### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

### **Questions and instructions**

#### CATEGORIES

<b>Value</b>	<b>Category</b>
2014-04-04	2014-04-04
2014-04-05	2014-04-05
2014-04-11	2014-04-11
2014-04-15	2014-04-15
2014-04-30	2014-04-30
2014-05-01	2014-05-01
2014-05-05	2014-05-05
2014-05-15	2014-05-15
2014-05-30	2014-05-30

2014-05-31	2014-05-31
2014-06-01	2014-06-01
2014-06-13	2014-06-13
2014-06-14	2014-06-14
2014-06-15	2014-06-15
2014-06-20	2014-06-20
2014-06-30	2014-06-30
2014-07-01	2014-07-01
2014-07-09	2014-07-09
2014-07-15	2014-07-15
2014-07-30	2014-07-30
2014-07-31	2014-07-31
2014-08-08	2014-08-08
2014-08-15	2014-08-15
2014-08-30	2014-08-30
2014-09-01	2014-09-01
2014-09-20	2014-09-20
2014-09-30	2014-09-30
2015-02-15	2015-02-15
2015-05-20	2015-05-20
2015-05-30	2015-05-30
2015-06-01	2015-06-01
2015-06-09	2015-06-09
2015-06-10	2015-06-10
2015-06-15	2015-06-15
2015-06-25	2015-06-25
2015-06-30	2015-06-30
2015-07-01	2015-07-01
2015-07-07	2015-07-07
2015-07-15	2015-07-15
2015-07-20	2015-07-20
2015-07-28	2015-07-28
2015-07-30	2015-07-30
2015-07-31	2015-07-31
2015-08-01	2015-08-01
2015-08-15	2015-08-15
2015-08-20	2015-08-20
2015-08-31	2015-08-31
2016-04-28	2016-04-28

2016-05-15	2016-05-15
2016-05-25	2016-05-25
2016-05-30	2016-05-30
2016-06-01	2016-06-01
2016-06-10	2016-06-10
2016-06-13	2016-06-13
2016-06-15	2016-06-15
2016-06-18	2016-06-18
2016-06-20	2016-06-20
2016-06-21	2016-06-21
2016-06-24	2016-06-24
2016-06-25	2016-06-25
2016-06-30	2016-06-30
2016-07-02	2016-07-02
2016-07-10	2016-07-10
2016-07-15	2016-07-15
2016-07-28	2016-07-28
2016-07-31	2016-07-31
2017-05-21	2017-05-21
2017-05-22	2017-05-22
2017-05-24	2017-05-24
2017-05-25	2017-05-25
2017-05-27	2017-05-27
2017-05-28	2017-05-28
2017-05-30	2017-05-30
2017-05-31	2017-05-31
2017-06-01	2017-06-01
2017-06-06	2017-06-06
2017-06-08	2017-06-08
2017-06-12	2017-06-12
2017-06-15	2017-06-15
2017-06-16	2017-06-16
2017-06-30	2017-06-30
2018-05-06	2018-05-06
2018-05-07	2018-05-07
2018-05-08	2018-05-08
2018-05-10	2018-05-10
2018-05-13	2018-05-13
2018-05-15	2018-05-15



2018-05-16	2018-05-16
2018-05-17	2018-05-17
2018-05-18	2018-05-18
2018-05-20	2018-05-20
2018-05-21	2018-05-21
2018-05-23	2018-05-23
2018-05-25	2018-05-25
2018-05-26	2018-05-26
2018-05-28	2018-05-28
2018-05-30	2018-05-30
2018-06-02	2018-06-02
2018-06-11	2018-06-11
2019-05-06	2019-05-06
2019-05-10	2019-05-10
2019-05-15	2019-05-15
2019-05-18	2019-05-18
2019-05-20	2019-05-20
2019-05-24	2019-05-24
2019-05-25	2019-05-25
2019-05-28	2019-05-28
2019-05-30	2019-05-30
2019-05-31	2019-05-31
2019-06-05	2019-06-05
2019-06-10	2019-06-10
2019-06-14	2019-06-14
2019-06-15	2019-06-15
2019-08-05	2019-08-05

**TERRITORY: Syngenta definition of territory (sub-region)****Data file: Global\_farm\_data****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
africa middle-east	africa middle-east

**COUNTRY: Country****Data file: Global\_farm\_data****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Zambia	Zambia

**CLUSTERID: Unique cluster ID****Data file: Global\_farm\_data****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
zambiamaze1	zambiamaze1
zambiamaze1+2+3	zambiamaze1+2+3
zambiamaze2	zambiamaze2
zambiamaze3	zambiamaze3

**GROWERID: Unique respondent ID****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
44100100	44100100
44100200	44100200
44100300	44100300
44100400	44100400
44100500	44100500
44100600	44100600
44100700	44100700
44100800	44100800
44100900	44100900
44102700	44102700
44103400	44103400
44106500	44106500
44106600	44106600
44106700	44106700
44106800	44106800
44106900	44106900
44107000	44107000
44107100	44107100
44107200	44107200
44201000	44201000
44201100	44201100
44201200	44201200
44201300	44201300
44201400	44201400
44201500	44201500
44201600	44201600
44201700	44201700
44201800	44201800

44201900	44201900
44202000	44202000
44202100	44202100
44202200	44202200
44202300	44202300
44202400	44202400
44202500	44202500
44202600	44202600
44202800	44202800
44202900	44202900
44203000	44203000
44203100	44203100
44203200	44203200
44203300	44203300
44203500	44203500
44203600	44203600
44203700	44203700
44203800	44203800
44203900	44203900
44204000	44204000
44204100	44204100
44204200	44204200
44204300	44204300
44204400	44204400
44204500	44204500
44204600	44204600
44204700	44204700
44204800	44204800
44204900	44204900
44205000	44205000
44205100	44205100
44205200	44205200
44205300	44205300
44205400	44205400
44205500	44205500
44205600	44205600
44205700	44205700
44205800	44205800
44205900	44205900

44206000	44206000
44206100	44206100
44206200	44206200
44206300	44206300
44206400	44206400
44207500	44207500
44207600	44207600

## GROWINGAREA: To which field/plot does the information relate to?

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
a	a
b	b

## FARMTYPE: Farmtype

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
bf	bf
rf	rf

## Q1C3: Q1.C3. Since you have participated before, we'd like to share with you your individual performance report

Data file: Global\_farm\_data

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not so useful
2	very useful
3	rather useful
4	not useful at all

**Q1F: Q1. F. Would it be okay for you for Syngenta to contact you with follow-up information on The Good Growth Plan?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	yes

**CROP: Crop of focus****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
corn	corn

**Q57A: Q57A. How certain you are of the size indication for growing area A?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
The size indicated is an estimate	The size indicated is an estimate
The size indicated was measured by a third party	The size indicated was measured by a third party
the size indicated is based on my own measurement	the size indicated is based on my own measurement

**Q4055: Q4055. TON/HEC Yield objective for area A for at beginning of this season?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 2 - 30 Format: Numeric

**Q19: Q19. Surname****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
confidential	confidential

**Q20: Q20. First name****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
confidential	confidential

### Q21: Q21. Phone number

**Data file:** Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
confidential	confidential

### Q22: Q22. E-mail address

**Data file:** Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
confidential	confidential

### Q27: Q27. Year of birth

**Data file:** Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1920 - 1995 Format: Numeric



**Q28: Q28. Gender****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	male
2	female

**Q31: Q31. Until what age did you go to school?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 0 - 56    Format: Numeric

**Q30: Q30. Are you a full-time or part-time farmer?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Full-time grower
2	Part-time grower

**Q30B: Q30. B. How long have you been engaged in farming activities?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 35    Format: Numeric

**Q33: Q33. Did you receive an agronomical/agricultural education?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	no
2	yes

**Q34: Q34. Are you a member of a producer group, association or cooperative for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	no
2	yes

**Q35C: Q35. C. Overall, how satisfied would you say you are with your life these days?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
01 not satisfied at all	01 not satisfied at all

02	02
03	03
04	04
05	05
06	06
07	07
08	08
09	09

### Q37A: Q37.A. Do you have signs of soil erosion by water on

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	no
2	yes

### Q37B: Q37.B. Do you have signs of soil erosion by wind on your farm?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	yes
2	no

### Q7001: Q7001. Have you changed your tillage practices for in the past 20 years?

Data file: Global\_farm\_data

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	yes

**Q7002: Q7002. How did you change your tillage practices for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	from conventional tillage to reduced tillage
2	from no tillage to reduced tillage
3	from no tillage to conventional tillage
4	from reduced tillage to no tillage
5	from reduced to conventional tillage

**Q7003: Q7003. How many years ago did you change your tillage practices for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 2 - 21 Format: Numeric

**Q7004: Q7004. Have you grown cover crop to manage soil health in the past 20 years for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	no
2	yes

### Q7005: Q7005. How many years ago did you start growing a cover crop for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 25 Format: Numeric

### Q66\_2: Q66. Which crops do you intercrop? Banana

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q66\_6: Q66. Which crops do you intercrop? Coffee

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned

2	mentioned
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### Q66\_7: Q66. Which crops do you intercrop? Corn

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	mentioned
2	not mentioned

### Q66\_8: Q66. Which crops do you intercrop? Cotton

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q7006: Q7006 Have you stopped growing a cover crop in the past 20 years for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
-------	----------

1	no
2	yes

### Q7007: Q7007. How many years ago did you stop growing a cover crop for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 8 Format: Numeric

### Q7008: Q7008. For was any land converted from arable land/grassland/forest in the past 20 years?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	no
2	yes

### Q7009: Q7009. How did the use of your land change for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	from grassland to forest
2	from grassland to arable land
3	from arable land to grassland
4	from forest to arable land

**Q7010: Q7010. How many years ago did the function of your land change for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 21 Format: Numeric

**Q65: Q65. Do you practice intercropping for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	yes
2	no

**Q66\_11: Q66. Which crops do you intercrop? Pear****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q66\_13: Q66. Which crops do you intercrop? Potato****Data file:** Global\_farm\_data



**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

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## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q66\_15: Q66. Which crops do you intercrop? Soybean****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

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## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q66\_17: Q66. Which crops do you intercrop? Sugarcane****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q66\_18: Q66. Which crops do you intercrop? Sunflower****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q66\_19: Q66. Which crops do you intercrop? Tomato****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q66\_20: Q66. Which crops do you intercrop? Watermelon****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q66\_32: Q66. Which crops do you intercrop? Cassava****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q66\_40: Q66. Which crops do you intercrop? Cover crop****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q66\_43: Q66. Which crops do you intercrop? Eggplant****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned

2	mentioned
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### Q66\_47: Q66. Which crops do you intercrop? Flowers

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q66\_55: Q66. Which crops do you intercrop? Kale

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q66\_56: Q66. Which crops do you intercrop? Lady finger (Okra)

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
-------	----------

1	not mentioned
2	mentioned

### Q66\_61: Q66. Which crops do you intercrop? Mango

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q66\_64: Q66. Which crops do you intercrop? Nuts

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q66\_67: Q66. Which crops do you intercrop? Onion

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q66\_70: Q66. Which crops do you intercrop? Other potatoes

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q66\_75: Q66. Which crops do you intercrop? Passion fruit

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q66\_80: Q66. Which crops do you intercrop? Pulses (lentils, beans, peas)

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q66\_81: Q66. Which crops do you intercrop? Pumpkin/squash

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q66\_96: Q66. Which crops do you intercrop? Other specify 1

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q66\_97: Q66. Which crops do you intercrop? Other specify 2

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

## Q66\_99: Q66. Which crops do you intercrop? Don't know/no answer

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

## Q60: Q60. Do you rotate crops on growing area A for ?

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes
2	no

## Q61\_7: Q61. What crops are you cultivating in rotation? Corn

Data file: Global\_farm\_data



## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	mentioned
2	not mentioned

## Q61\_8: Q61. What crops are you cultivating in rotation? Cotton

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

## Q61\_11: Q61. What crops are you cultivating in rotation? Pear

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q61\_13: Q61. What crops are you cultivating in rotation? Potato****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q61\_15: Q61. What crops are you cultivating in rotation? Soybean****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q61\_17: Q61. What crops are you cultivating in rotation? Sugarcane****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q61\_18: Q61. What crops are you cultivating in rotation? Sunflower****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q61\_19: Q61. What crops are you cultivating in rotation? Tomato****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned
2	not mentioned

**Q61\_20: Q61. What crops are you cultivating in rotation? Watermelon****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned

2	mentioned
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### Q61\_43: Q61. What crops are you cultivating in rotation? Eggplant

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q61\_64: Q61. What crops are you cultivating in rotation? Nuts

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q61\_70: Q61. What crops are you cultivating in rotation? Other potatoes

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
-------	----------

1	not mentioned
2	mentioned

### Q61\_80: Q61. What crops are you cultivating in rotation? Pulses (lentils, beans, peas)

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q61\_81: Q61. What crops are you cultivating in rotation? Pumpkin/squash

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q61\_96: Q61. What crops are you cultivating in rotation? Other. Specify 1

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	mentioned
2	not mentioned

### Q61\_97: Q61. What crops are you cultivating in rotation? Other. Specify 2

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q67: Q67. What is the soil type of growing area A for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 12 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	sandy clay soil
2	silty clay soil
3	clay soil
4	clay loam soil
5	loamy sand soil
6	sandy loam soil
7	silty clay loam soil
8	silt loam soil
9	sandy clay loam soil
10	loam soil
11	sand soil

12	silt soil
----	-----------

**Q67B: Q67B. Texture is your soil on growing area A for this season?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	light - this includes sandy soils that are easy to
2	medium - this includes loamy soils that are moderately
3	heavy - this includes clayey soils that are hard

**Q7011: Q7011. How moist would rate your soil on growing area A for this season?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	moist
2	dry

**Q7012: Q7012 Rate the drainage of water through the soil on area A for this season?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	good drainage
2	poor drainage

### Q55E1: Q55E1. Partook in training/meeting on crop/agricultural practices in the past 2 years?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	no
2	yes

### Q5500: Q5500. During the training/meeting, at least 15 minutes talking about safe-use practices

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	yes

### Q55E2\_1: Q55E2. Who organized this training? Syngenta representative

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric



## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q55E2\_3: Q55E2. Who organized this training? Extension officer

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q55E2\_4: Q55E2. Who organized this training? Cooperative

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q55E2\_5: Q55E2. Who organized this training? Agronomist/advisor

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

## Q55E2\_6: Q55E2. Who organized this training? Supplier

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

## Q55E2\_7: Q55E2. Who organized this training? Governmental organization (e.g. Ministry)

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	mentioned
2	not mentioned

## Q5501: Q5501. Have you been contacted by a Syngenta representative during the past season?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes
2	no

### Q5502\_1: Q5502. Can you describe how the Syngenta representative contacted you? Demonstration day

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q5502\_2: Q5502. Can you describe how the Syngenta representative contacted you? They visited my farm

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q5502\_3: Q5502. Can you describe how the Syngenta representative contacted you? Received a brochure

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q5502\_4: Q5502. Can you describe how the Syngenta representative contacted you? Phone call

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	mentioned
2	not mentioned

### Q5502\_96: Q5502. Can you describe how the Syngenta representative contacted you? Other specify 1:

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
-------	----------

1	not mentioned
2	mentioned

### Q5503: Q5503. How useful was contact with the Syngenta Representative

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	rather useful
2	very useful
3	not very useful

### Q4041A: Q4041.A. Do you feel the need to follow training on crop cultivation in the near future?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	no
2	yes

### Q54\_1: Q54. Where do you deposit the rest water after spraying? Citerne (phytobac, helioseco, sentinel, biofilter)

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Mentioned
2	Not mentioned

### Q54\_2: Q54. Where do you deposit the rest water after spraying? In fields

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

### Questions and instructions

### CATEGORIES

Value	Category
1	Mentioned

### Q54\_3: Q54. Where do you deposit the rest water after spraying? In rivers, streams, drain or via the ditch

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

### Questions and instructions

### CATEGORIES

Value	Category
1	Mentioned

### Q54\_96: Q54. Where do you deposit the rest water after spraying? Other specify 1:

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Mentioned

### Q54\_99: Q54. Where do you deposit the rest water after spraying? Don't know / no answer

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Mentioned

### Q54\_OTH1: Q54. Other 1:: Q54. Where do you deposit the rest water after spraying?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
DIG A PIT & THEN POOR OUTSIDE OF FIELD	DIG A PIT & THEN POOR OUTSIDE OF FIELD
DO NOT APPLY CHEMICALS	DO NOT APPLY CHEMICALS
ENSURES RIGHT AMOUNT IS MIXED	ENSURES RIGHT AMOUNT IS MIXED
IN THE TOILET	IN THE TOILET
PUT EXACT AMOUNT NO REMENDER	PUT EXACT AMOUNT NO REMENDER
THEY MEASURE THE EXACT QUANTITY	THEY MEASURE THE EXACT QUANTITY

### Q55A\_1: Q55a. Where do you clean your sprain equipment? On farm

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

## Q55B\_1: Q55b. Where do you dispose the water used for cleaning you equipment? On field

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	mentioned
2	not mentioned

## Q55B\_2: Q55b. Where do you dispose the water used for cleaning you equipment? Citerne

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	mentioned

## Q55B\_3: Q55b. Where do you dispose the water used for cleaning you equipment? On an



**unpaved surface****Data file:** Global\_farm\_data**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 12   Range: 1 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned

**Q55B\_4: Q55b. Where do you dispose the water used for cleaning you equipment? On a paved surface (drain / dike)****Data file:** Global\_farm\_data**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 12   Range: 1 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned

**Q55B\_96: Q55b. Where do you dispose the water used for cleaning you equipment? Other specify 1:****Data file:** Global\_farm\_data**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 12   Range: 1 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned

**Q55B\_99: Q55b. Where do you dispose the water used for cleaning you equipment? Don't know / no answer****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned

**Q55C: Q55. C. Do you store the sprayer protected from rain?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	yes
2	no

**Q55D: Q55. D. Do you use drift-reducing nozzles on your sprayer?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	yes
2	no

**Q72: Q72. When did the first field preparation start for growing area A for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2013-07-05	2013-07-05
2013-07-07	2013-07-07
2013-07-20	2013-07-20
2013-07-31	2013-07-31
2013-08-30	2013-08-30
2013-09-15	2013-09-15
2013-09-30	2013-09-30
2013-10-01	2013-10-01
2013-10-05	2013-10-05
2013-10-07	2013-10-07
2013-10-10	2013-10-10
2013-10-11	2013-10-11
2013-10-12	2013-10-12
2013-10-13	2013-10-13
2013-10-15	2013-10-15
2013-10-20	2013-10-20
2013-10-30	2013-10-30
2013-10-31	2013-10-31
2013-11-01	2013-11-01
2013-11-15	2013-11-15
2013-11-30	2013-11-30
2015-07-21	2015-07-21
2015-07-30	2015-07-30
2015-08-05	2015-08-05
2015-08-15	2015-08-15
2015-08-20	2015-08-20
2015-09-04	2015-09-04
2015-09-08	2015-09-08

2015-09-10	2015-09-10
2015-09-15	2015-09-15
2015-09-20	2015-09-20
2015-09-30	2015-09-30
2015-10-02	2015-10-02
2015-10-05	2015-10-05
2015-10-08	2015-10-08
2015-10-11	2015-10-11
2015-10-12	2015-10-12
2015-10-25	2015-10-25
2015-10-30	2015-10-30
2015-11-02	2015-11-02
2015-11-25	2015-11-25
2015-11-30	2015-11-30
2016-07-11	2016-07-11
2016-07-30	2016-07-30
2016-08-24	2016-08-24
2016-09-06	2016-09-06
2016-09-10	2016-09-10
2016-09-14	2016-09-14
2016-09-15	2016-09-15
2016-09-27	2016-09-27
2016-09-30	2016-09-30
2016-10-01	2016-10-01
2016-10-05	2016-10-05
2016-10-10	2016-10-10
2016-10-11	2016-10-11
2016-10-15	2016-10-15
2016-10-17	2016-10-17
2016-10-20	2016-10-20
2016-10-22	2016-10-22
2016-10-26	2016-10-26
2016-11-07	2016-11-07
2016-11-10	2016-11-10
2016-11-15	2016-11-15
2016-11-20	2016-11-20
2017-09-01	2017-09-01
2017-09-10	2017-09-10
2017-09-15	2017-09-15

2017-09-25	2017-09-25
2017-09-30	2017-09-30
2017-10-01	2017-10-01
2017-10-12	2017-10-12
2017-10-15	2017-10-15
2017-10-20	2017-10-20
2017-10-30	2017-10-30
2017-11-15	2017-11-15
2018-09-01	2018-09-01
2018-09-21	2018-09-21
2018-09-25	2018-09-25
2018-09-30	2018-09-30
2018-10-01	2018-10-01
2018-10-05	2018-10-05
2018-10-10	2018-10-10
2018-10-15	2018-10-15
2018-10-25	2018-10-25
2018-11-01	2018-11-01

### Q73: Q73. KGs/HECT of seeds sown for growing area A for

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 10 - 30 Format: Numeric

### Q74: Q74. When was the crop sown / planted for growing area A for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

#### CATEGORIES

Value	Category
2013-10-30	2013-10-30
2013-10-31	2013-10-31
2013-11-01	2013-11-01

2013-11-02	2013-11-02
2013-11-03	2013-11-03
2013-11-11	2013-11-11
2013-11-15	2013-11-15
2013-11-20	2013-11-20
2013-11-30	2013-11-30
2013-12-01	2013-12-01
2013-12-15	2013-12-15
2013-12-23	2013-12-23
2013-12-31	2013-12-31
2015-10-24	2015-10-24
2015-10-28	2015-10-28
2015-10-30	2015-10-30
2015-11-10	2015-11-10
2015-11-15	2015-11-15
2015-11-20	2015-11-20
2015-11-28	2015-11-28
2015-11-30	2015-11-30
2015-12-01	2015-12-01
2015-12-02	2015-12-02
2015-12-05	2015-12-05
2015-12-10	2015-12-10
2015-12-15	2015-12-15
2015-12-20	2015-12-20
2016-11-05	2016-11-05
2016-11-10	2016-11-10
2016-11-14	2016-11-14
2016-11-15	2016-11-15
2016-11-20	2016-11-20
2016-11-22	2016-11-22
2016-11-23	2016-11-23
2016-11-25	2016-11-25
2016-11-27	2016-11-27
2016-11-30	2016-11-30
2016-12-01	2016-12-01
2016-12-05	2016-12-05
2016-12-10	2016-12-10
2016-12-12	2016-12-12
2016-12-15	2016-12-15

2016-12-17	2016-12-17
2016-12-18	2016-12-18
2017-11-10	2017-11-10
2017-11-15	2017-11-15
2017-12-01	2017-12-01
2017-12-06	2017-12-06
2017-12-10	2017-12-10
2017-12-15	2017-12-15
2017-12-18	2017-12-18
2017-12-20	2017-12-20
2018-11-12	2018-11-12
2018-11-15	2018-11-15
2018-11-20	2018-11-20
2018-12-01	2018-12-01
2018-12-05	2018-12-05
2018-12-10	2018-12-10
2018-12-11	2018-12-11
2018-12-15	2018-12-15
2018-12-20	2018-12-20
2018-12-21	2018-12-21
2018-12-22	2018-12-22
2018-12-28	2018-12-28

### Q7400: Q7400. Have you sown/planted in the same period as last year?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category
1	yes
2	no

**Q231B: Q231B. Are your seeds coated with crop protection products?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	no
2	yes

**Q233: Q233. Do you use on-farm or pre-treated seed treatment to treat the seeds for growing area A for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	pre-treated seed treatment
2	on-farm seed treatment
3	none

**Q397NEW: Q397\_NEW. If you have received a crop program and/or any recommendations for growing to implement this season.****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
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1	i did not receive any kind of crop program
2	i received a complete crop program (this
3	i received some recommendations but not a complete program

### Q224A: Q224 A. Did you perform a soil test for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	yes
2	no

### Q224: Q224. Do you apply organic fertilizers for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	no
2	yes

### Q226: Q226. Do you apply chemical fertilizers for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes
2	no

**Q229B1: Q229B1.Total number of applications you perform with chemical fertilizers on growing area for ?**

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 1 - 2 Format: Numeric

**Q229B2: Q229B2.Total number of applications you perform with organic fertilizers on growing area for ?**

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Q240E\_1: Q240E. We would like to better understand the pest pressure on the selected growing areas. INSECT PRESSURE**

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	medium
2	no pressure
3	low
4	high

## Q240E\_2: Q240E. We would like to better understand the pest pressure on the selected growing areas. DISEASE PRESSURE

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	low
2	no pressure
3	medium

## Q240E\_3: Q240E. We would like to better understand the pest pressure on the selected growing areas. WEED PRESSURE

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	medium
2	low
3	high
4	no pressure

## Q240EN: Q240.E1. Do you generally use drift-reducing nozzles on your sprayer?

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

### Questions and instructions

## CATEGORIES

Value	Category
1	yes
2	no

**Q240D: Q240D. Note down the total number of treatments you perform with crop protection products**

**Data file:** Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

**Q75: Q75. What is the final stand i.e. the number of plants - per /?**

**Data file:** Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 5 - 9 Format: Numeric

**Q76: Q76. Prior to harvest, indicate the percentage of the plot area that is lodged for ?**

**Data file:** Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 30 Format: Numeric

**Q243A: Q243. When was the harvest period for ?**

**Data file:** Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

## CATEGORIES

Value	Category
2014-04-01	2014-04-01
2014-04-03	2014-04-03
2014-04-10	2014-04-10

2014-04-11	2014-04-11
2014-04-15	2014-04-15
2014-04-25	2014-04-25
2014-04-30	2014-04-30
2014-05-01	2014-05-01
2014-05-05	2014-05-05
2014-05-15	2014-05-15
2014-05-20	2014-05-20
2014-05-31	2014-05-31
2014-06-01	2014-06-01
2014-06-03	2014-06-03
2014-06-14	2014-06-14
2014-06-15	2014-06-15
2014-06-30	2014-06-30
2014-07-01	2014-07-01
2014-07-15	2014-07-15
2014-07-30	2014-07-30
2014-07-31	2014-07-31
2016-04-10	2016-04-10
2016-05-01	2016-05-01
2016-05-10	2016-05-10
2016-05-15	2016-05-15
2016-05-16	2016-05-16
2016-05-18	2016-05-18
2016-05-25	2016-05-25
2016-05-30	2016-05-30
2016-06-02	2016-06-02
2016-06-05	2016-06-05
2016-06-13	2016-06-13
2016-06-15	2016-06-15
2016-06-25	2016-06-25
2016-06-26	2016-06-26
2016-07-05	2016-07-05
2017-05-01	2017-05-01
2017-05-02	2017-05-02
2017-05-03	2017-05-03
2017-05-04	2017-05-04
2017-05-05	2017-05-05
2017-05-06	2017-05-06

2017-05-10	2017-05-10
2017-05-13	2017-05-13
2017-05-15	2017-05-15
2017-05-20	2017-05-20
2017-05-25	2017-05-25
2018-05-01	2018-05-01
2018-05-05	2018-05-05
2018-05-06	2018-05-06
2018-05-07	2018-05-07
2018-05-10	2018-05-10
2018-05-15	2018-05-15
2018-05-18	2018-05-18
2018-05-20	2018-05-20
2018-05-25	2018-05-25
2018-05-30	2018-05-30
2018-06-04	2018-06-04
2019-04-01	2019-04-01
2019-04-05	2019-04-05
2019-04-10	2019-04-10
2019-04-15	2019-04-15
2019-04-22	2019-04-22
2019-04-28	2019-04-28
2019-04-30	2019-04-30
2019-05-01	2019-05-01
2019-05-04	2019-05-04
2019-05-09	2019-05-09
2019-05-10	2019-05-10
2019-05-15	2019-05-15
2019-05-20	2019-05-20
2019-05-30	2019-05-30

### Q243B: Q243. When was the harvest period for ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2014-04-04	2014-04-04
2014-04-05	2014-04-05
2014-04-11	2014-04-11
2014-04-15	2014-04-15
2014-04-30	2014-04-30
2014-05-01	2014-05-01
2014-05-05	2014-05-05
2014-05-15	2014-05-15
2014-05-30	2014-05-30
2014-05-31	2014-05-31
2014-06-01	2014-06-01
2014-06-13	2014-06-13
2014-06-14	2014-06-14
2014-06-15	2014-06-15
2014-06-20	2014-06-20
2014-06-30	2014-06-30
2014-07-01	2014-07-01
2014-07-09	2014-07-09
2014-07-15	2014-07-15
2014-07-30	2014-07-30
2014-07-31	2014-07-31
2014-08-08	2014-08-08
2014-08-15	2014-08-15
2014-08-30	2014-08-30
2014-09-01	2014-09-01
2014-09-20	2014-09-20
2014-09-30	2014-09-30
2016-04-28	2016-04-28
2016-05-15	2016-05-15
2016-05-25	2016-05-25
2016-05-30	2016-05-30
2016-06-01	2016-06-01
2016-06-10	2016-06-10
2016-06-13	2016-06-13
2016-06-15	2016-06-15

2016-06-18	2016-06-18
2016-06-20	2016-06-20
2016-06-21	2016-06-21
2016-06-24	2016-06-24
2016-06-25	2016-06-25
2016-06-30	2016-06-30
2016-07-02	2016-07-02
2016-07-10	2016-07-10
2016-07-15	2016-07-15
2016-07-28	2016-07-28
2016-07-31	2016-07-31
2017-05-21	2017-05-21
2017-05-22	2017-05-22
2017-05-24	2017-05-24
2017-05-25	2017-05-25
2017-05-27	2017-05-27
2017-05-28	2017-05-28
2017-05-30	2017-05-30
2017-05-31	2017-05-31
2017-06-01	2017-06-01
2017-06-06	2017-06-06
2017-06-08	2017-06-08
2017-06-12	2017-06-12
2017-06-15	2017-06-15
2017-06-16	2017-06-16
2017-06-30	2017-06-30
2018-05-06	2018-05-06
2018-05-07	2018-05-07
2018-05-08	2018-05-08
2018-05-10	2018-05-10
2018-05-13	2018-05-13
2018-05-15	2018-05-15
2018-05-16	2018-05-16
2018-05-17	2018-05-17
2018-05-18	2018-05-18
2018-05-20	2018-05-20
2018-05-21	2018-05-21
2018-05-23	2018-05-23
2018-05-25	2018-05-25



2018-05-26	2018-05-26
2018-05-28	2018-05-28
2018-05-30	2018-05-30
2018-06-02	2018-06-02
2018-06-11	2018-06-11
2019-05-06	2019-05-06
2019-05-10	2019-05-10
2019-05-15	2019-05-15
2019-05-18	2019-05-18
2019-05-20	2019-05-20
2019-05-24	2019-05-24
2019-05-25	2019-05-25
2019-05-28	2019-05-28
2019-05-30	2019-05-30
2019-05-31	2019-05-31
2019-06-05	2019-06-05
2019-06-10	2019-06-10
2019-06-14	2019-06-14
2019-06-15	2019-06-15
2019-08-05	2019-08-05

### Q243BB: Q243b. Have you harvested in the same period as last year?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category
1	yes
2	no

### Q274A: Q274. Yield that has been achieved for growing area A for corn in per ? Grain yield

Data file: Global\_farm\_data

**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0.6 - 5 Format: Numeric

**Q274B: Q274. Yield that has been achieved for growing area A for corn in per ? Silage yield****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q274C: Q274. Yield that has been achieved for growing area A for corn in per ? Cobs yield****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.6 Format: Numeric

**Q4094\_1: Q4094. Who measured the yield on each of the growing areas? Myself****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q4094\_2: Q4094. Who measured the yield on each of the growing areas? Dealer/store****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q4094\_3: Q4094. Who measured the yield on each of the growing areas? Manufacturer/representative

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q4094\_4: Q4094. Who measured the yield on each of the growing areas? Independent advisor

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q4094\_5: Q4094. Who measured the yield on each of the growing areas? Cooperative

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	mentioned
2	not mentioned

### Q4094\_98: Q4094. Who measured the yield on each of the growing areas? Other specify3

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

### Q4095A: Q4095. A. Compared to previous year, would you say your yield has ...?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	increased
2	decreased
3	remained stable

### Q4096A: Q4096. A. How satisfied are you with your yield this season?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	somewhat satisfied
2	very unsatisfied
3	very satisfied
4	somewhat unsatisfied

## Q4097A: Q4097. A. How satisfied are you with the price you received on the market?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	very unsatisfied
2	somewhat satisfied
3	very satisfied
4	somewhat unsatisfied

## Q251: Q251. % of crop damaged at the time of harvest (total lost - not marketable) for ?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 25 Format: Numeric

## Q360A: Q360. When was the harvest period for ?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2014-04-01	2014-04-01
2014-04-03	2014-04-03
2014-04-10	2014-04-10
2014-04-11	2014-04-11
2014-04-15	2014-04-15
2014-04-25	2014-04-25
2014-04-30	2014-04-30
2014-05-01	2014-05-01
2014-05-05	2014-05-05
2014-05-15	2014-05-15
2014-05-20	2014-05-20
2014-05-31	2014-05-31
2014-06-01	2014-06-01
2014-06-03	2014-06-03
2014-06-14	2014-06-14
2014-06-15	2014-06-15
2014-06-30	2014-06-30
2014-07-01	2014-07-01
2014-07-15	2014-07-15
2014-07-30	2014-07-30
2014-07-31	2014-07-31

### Q360B: Q360. When was the harvest period for ?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2014-04-04	2014-04-04
2014-04-05	2014-04-05
2014-04-11	2014-04-11
2014-04-15	2014-04-15
2014-04-30	2014-04-30
2014-05-01	2014-05-01
2014-05-05	2014-05-05
2014-05-15	2014-05-15
2014-05-30	2014-05-30
2014-05-31	2014-05-31
2014-06-01	2014-06-01
2014-06-13	2014-06-13
2014-06-14	2014-06-14
2014-06-15	2014-06-15
2014-06-20	2014-06-20
2014-06-30	2014-06-30
2014-07-01	2014-07-01
2014-07-09	2014-07-09
2014-07-15	2014-07-15
2014-07-30	2014-07-30
2014-07-31	2014-07-31
2014-08-08	2014-08-08
2014-08-15	2014-08-15
2014-08-30	2014-08-30
2014-09-01	2014-09-01
2014-09-20	2014-09-20
2014-09-30	2014-09-30

### Q319A: Q319. When was the harvest period for sugarcane?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

CATEGORIES

Value	Category
2014-04-01	2014-04-01
2014-04-03	2014-04-03
2014-04-10	2014-04-10
2014-04-11	2014-04-11
2014-04-15	2014-04-15
2014-04-25	2014-04-25
2014-04-30	2014-04-30
2014-05-01	2014-05-01
2014-05-05	2014-05-05
2014-05-15	2014-05-15
2014-05-20	2014-05-20
2014-05-31	2014-05-31
2014-06-01	2014-06-01
2014-06-03	2014-06-03
2014-06-14	2014-06-14
2014-06-15	2014-06-15
2014-06-30	2014-06-30
2014-07-01	2014-07-01
2014-07-15	2014-07-15
2014-07-30	2014-07-30
2014-07-31	2014-07-31

### Q319B: Q319. When was the harvest period for sugarcane?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

#### CATEGORIES

Value	Category
2014-04-04	2014-04-04
2014-04-05	2014-04-05
2014-04-11	2014-04-11
2014-04-15	2014-04-15
2014-04-30	2014-04-30



2014-05-01	2014-05-01
2014-05-05	2014-05-05
2014-05-15	2014-05-15
2014-05-30	2014-05-30
2014-05-31	2014-05-31
2014-06-01	2014-06-01
2014-06-13	2014-06-13
2014-06-14	2014-06-14
2014-06-15	2014-06-15
2014-06-20	2014-06-20
2014-06-30	2014-06-30
2014-07-01	2014-07-01
2014-07-09	2014-07-09
2014-07-15	2014-07-15
2014-07-30	2014-07-30
2014-07-31	2014-07-31
2014-08-08	2014-08-08
2014-08-15	2014-08-15
2014-08-30	2014-08-30
2014-09-01	2014-09-01
2014-09-20	2014-09-20
2014-09-30	2014-09-30

### Q339A: Q339. When was the harvest period for banana?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

#### CATEGORIES

Value	Category
2014-04-01	2014-04-01
2014-04-03	2014-04-03
2014-04-10	2014-04-10
2014-04-11	2014-04-11
2014-04-15	2014-04-15

2014-04-25	2014-04-25
2014-04-30	2014-04-30
2014-05-01	2014-05-01
2014-05-05	2014-05-05
2014-05-15	2014-05-15
2014-05-20	2014-05-20
2014-05-31	2014-05-31
2014-06-01	2014-06-01
2014-06-03	2014-06-03
2014-06-14	2014-06-14
2014-06-15	2014-06-15
2014-06-30	2014-06-30
2014-07-01	2014-07-01
2014-07-15	2014-07-15
2014-07-30	2014-07-30
2014-07-31	2014-07-31

### Q339B: Q339. When was the harvest period for banana?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

#### CATEGORIES

Value	Category
2014-04-04	2014-04-04
2014-04-05	2014-04-05
2014-04-11	2014-04-11
2014-04-15	2014-04-15
2014-04-30	2014-04-30
2014-05-01	2014-05-01
2014-05-05	2014-05-05
2014-05-15	2014-05-15
2014-05-30	2014-05-30
2014-05-31	2014-05-31
2014-06-01	2014-06-01

2014-06-13	2014-06-13
2014-06-14	2014-06-14
2014-06-15	2014-06-15
2014-06-20	2014-06-20
2014-06-30	2014-06-30
2014-07-01	2014-07-01
2014-07-09	2014-07-09
2014-07-15	2014-07-15
2014-07-30	2014-07-30
2014-07-31	2014-07-31
2014-08-08	2014-08-08
2014-08-15	2014-08-15
2014-08-30	2014-08-30
2014-09-01	2014-09-01
2014-09-20	2014-09-20
2014-09-30	2014-09-30

### Q246\_1: Q246. % of the harvest of your target crop is used for own consumption

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 20 - 100 Format: Numeric

### Q246\_2: Q246. % of the harvest of your target crop is used for feeding livestock

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 20 Format: Numeric

### Q246\_3: Q246. % of the harvest of your target crop is used for harvest sold

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 80 Format: Numeric

**Q4002: Q4002. Did you take measures to prevent post-harvest loss for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	no
2	yes

**Q7013: Q7013. How do you deal with crop residue of ?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 5    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	i leave the crop residue on the field
2	i burn the crop residue
3	i remove the crop residue and use it as compost
4	i remove the crop residue and leave it untreated
5	i remove the crop residue and export it off farm

**Q377: Q377. What is the estimated revenue in / for growing area A of ?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 400 - 22000    Format: Numeric

**Q378: Q378. Could you please indicate the estimated revenue in general? /.****Data file:** Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 30000 Format: Numeric

### Q379: Q379.A Can you please explain your answer for ?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	average
2	low
3	very low
4	high
5	very high

### Q380: Q380. What is your total input cost for from first field preparation until harvest?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 400 - 18000 Format: Numeric

### Q4111\_1: Q4111. Actual costs SEEDS for ?/

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 100 - 3603 Format: Numeric

### Q4111\_2: Q4111. Actual costs FERTILIZERZ for ?/

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 450 - 4560 Format: Numeric

**Q4111\_3: Q4111. Actual costs LABOR for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 1700 Format: Numeric

**Q4111\_4: Q4111. Actual costs MACHINERY ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 300 - 5000 Format: Numeric

**Q4111\_5: Q4111. Actual costs WATER USE for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q4111\_6: Q4111. Actual costs FUEL for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q4111\_7: Q4111. Actual costs RENT/LOAN for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q4111\_8: Q4111. Actual costs FUNGICIDES for ?/****Data file:** Global\_farm\_data

**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q4111\_9: Q4111. Actual costs HERBICIDES for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q4111\_10: Q4111. Actual costs INSECTICIDES ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 900 Format: Numeric

**Q4111\_98: Q4111. Actual costs DRYING for ?/****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 1440 Format: Numeric

**Q381\_1: Q381. Percentage of TREES/SEED costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 100 Format: Numeric

**Q381\_2: Q381. Percentage of FERTILIZERS costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 85 Format: Numeric

**Q381\_3: Q381. Percentage of PESTICIDES costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 60 Format: Numeric

**Q381\_4: Q381. Percentage of LABOR costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 70 Format: Numeric

**Q381\_5: Q381. Percentage of MACHINERY costs of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 45 Format: Numeric

**Q381\_6: Q381. Percentage of WATER USE costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 70 Format: Numeric

**Q381\_7: Q381. Percentage of FUEL costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 40 Format: Numeric

**Q381\_8: Q381. Percentage of ELECTRICITY costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 10 Format: Numeric



**Q381\_9: Q381. Percentage of GAS costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0 Format: Numeric

**Q381\_10: Q381. Percentage of RENT/LOAN costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 30 Format: Numeric

**Q381\_98: Q381. Percentage of OTHER costs out of the total input cost for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0 - 30 Format: Numeric

**Q4121: Q4121. In general for the whole cultivation period, rate the weather conditions for ?****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	no favorable weather conditions
2	normal weather conditions

**Q387\_1: Q387. What was the impact for target crop? Reduced yield****Data file:** Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	mentioned
2	not mentioned

## Q387\_2: Q387. What was the impact for target crop? Reduced yield quality

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

## Q387\_3: Q387. What was the impact for target crop? No impact

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q388: Q388. How would you say the level of rainfall was for growing area A****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 5    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	somewhat more than usual
2	a lot less than usual
3	somewhat less than usual
4	a lot more than usual
5	the same as usual

**Q388B: Q388. B. You mentioned you had less rainfall this season than usual. Was this problematic?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	yes
2	no

**Q388D: Q388D. You mentioned you had more rainfall this season than usual. Was this problematic?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	no

**Q3880: Q3880. How would you say the temperature was during this season ?**

Data file: Global\_farm\_data

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	somewhat higher than usual
2	the same as usual
3	somewhat lower than usual
4	a lot higher than usual
5	a lot lower than usual

**Q3880B: Q3880 B. You mentioned you had lower temperatures this season than usual. Was this problematic?**

Data file: Global\_farm\_data

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	yes

**Q3880D: Q3880 D. You mentioned you had higher temperatures this season than usual. Was this problematic?**

Data file: Global\_farm\_data

**Overview**

Valid: 0 Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	no
2	yes

### Q389: Q389. What is the MAIN water source of during this season?

Data file: Global\_farm\_data

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	rain-fed (no equipment, only natural rainfall)
2	irrigated using irrigation equipment (e.g. rain,

### Q390: Q390. What is the number of days you have been irrigating ?

Data file: Global\_farm\_data

#### Overview

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 5 - 180    Format: Numeric

### Q391: Q391. What is the average amount of hours per day you have been irrigating of ?

Data file: Global\_farm\_data

#### Overview

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 2 - 12    Format: Numeric

### Q392: Q392. What is the amount of liters that is discharged per hour of ?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 100 - 1000 Format: Numeric

### Q399C: Q399.C. How satisfied are you with the crop program and/or recommendations for ?

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	rather satisfied
2	very satisfied
3	not satisfied at all
4	rather unsatisfied

### DATE1: field preparation

Data file: Global\_farm\_data

## Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
2018-09-01	2018-09-01
2018-09-21	2018-09-21
2018-09-25	2018-09-25
2018-09-30	2018-09-30
2018-10-01	2018-10-01
2018-10-05	2018-10-05
2018-10-10	2018-10-10
2018-10-15	2018-10-15
2018-10-25	2018-10-25
2018-11-01	2018-11-01

**DATE2: sowing/planting****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2018-11-12	2018-11-12
2018-11-15	2018-11-15
2018-11-20	2018-11-20
2018-12-01	2018-12-01
2018-12-05	2018-12-05
2018-12-10	2018-12-10
2018-12-11	2018-12-11
2018-12-15	2018-12-15
2018-12-20	2018-12-20
2018-12-21	2018-12-21
2018-12-22	2018-12-22
2018-12-28	2018-12-28

**DATE3A: begin harvest****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2019-04-01	2019-04-01
2019-04-05	2019-04-05
2019-04-10	2019-04-10
2019-04-15	2019-04-15

2019-04-22	2019-04-22
2019-04-28	2019-04-28
2019-04-30	2019-04-30
2019-05-01	2019-05-01
2019-05-04	2019-05-04
2019-05-09	2019-05-09
2019-05-10	2019-05-10
2019-05-15	2019-05-15
2019-05-20	2019-05-20
2019-05-30	2019-05-30

### DATE3B: end harvest

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

#### CATEGORIES

Value	Category
2019-05-06	2019-05-06
2019-05-10	2019-05-10
2019-05-15	2019-05-15
2019-05-18	2019-05-18
2019-05-20	2019-05-20
2019-05-24	2019-05-24
2019-05-25	2019-05-25
2019-05-28	2019-05-28
2019-05-30	2019-05-30
2019-05-31	2019-05-31
2019-06-05	2019-06-05
2019-06-10	2019-06-10
2019-06-14	2019-06-14
2019-06-15	2019-06-15
2019-08-05	2019-08-05



**HARVESTYEAR: Data collection wave****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 2014 - 2019    Format: Numeric

**Q215: Q215. When did the first field preparation start for cauliflower?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2013-07-05	2013-07-05
2013-07-07	2013-07-07
2013-07-20	2013-07-20
2013-07-31	2013-07-31
2013-08-30	2013-08-30
2013-09-15	2013-09-15
2013-09-30	2013-09-30
2013-10-01	2013-10-01
2013-10-05	2013-10-05
2013-10-07	2013-10-07
2013-10-10	2013-10-10
2013-10-11	2013-10-11
2013-10-12	2013-10-12
2013-10-13	2013-10-13
2013-10-15	2013-10-15
2013-10-20	2013-10-20
2013-10-30	2013-10-30
2013-10-31	2013-10-31
2013-11-01	2013-11-01
2013-11-15	2013-11-15
2013-11-30	2013-11-30

**Q218: Q218. When have the young plants been planted for cauliflower?****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2013-10-30	2013-10-30
2013-10-31	2013-10-31
2013-11-01	2013-11-01
2013-11-02	2013-11-02
2013-11-03	2013-11-03
2013-11-11	2013-11-11
2013-11-15	2013-11-15
2013-11-20	2013-11-20
2013-11-30	2013-11-30
2013-12-01	2013-12-01
2013-12-15	2013-12-15
2013-12-23	2013-12-23
2013-12-31	2013-12-31

**Q4000\_1: q4000\_1. To whom do you sell your yield - I sell it on the local market****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q4000\_2: q4000\_2. To whom do you sell your yield - I sell it to a trader****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q4000\_3: q4000\_3. To whom do you sell your yield - I sell it to a wholesaler****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q4000\_4: q4000\_4. To whom do you sell your yield - I sell it to a feed processing plant****Data file:** Global\_farm\_data**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q4000\_5: q4000\_5. To whom do you sell your yield - I sell it to a cooperative I am part of****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	mentioned
2	not mentioned

**Q4000\_6: q4000\_6. To whom do you sell your yield -I sell it under a contract****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q4000\_7: q4000\_7. To whom do you sell your yield -Government owned rural collection center****Data file:** Global\_farm\_data**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
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1	not mentioned
2	mentioned

### Q399: Q399. Please explain why you follow or do not follow the crop program and/or recommendations.

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

##### CATEGORIES

Value	Category
ADVANTAGES ARE HIGH YIELD. REDUCED LABOUR COST. REDUCED SOIL EROSION	ADVANTAGES ARE HIGH YIELD. REDUCED LABOUR COST. REDUCED SOIL EROSION
BECAUSE IT HELPS HOW TO GO ABOUT IN TERMS OF FARMING	BECAUSE IT HELPS HOW TO GO ABOUT IN TERMS OF FARMING
BECAUSE THEY HELP ME PLAN AND KNOW WHAT I NEED FOR MY FARMING.	BECAUSE THEY HELP ME PLAN AND KNOW WHAT I NEED FOR MY FARMING.
BY DOING THE RIGHT THING AND FOLLOW THE INSTRUCTIONS	BY DOING THE RIGHT THING AND FOLLOW THE INSTRUCTIONS
DON'T HAVE TIME	DON'T HAVE TIME
DURING THE FIELD VISITS THE AGENCIES GIVE USEFUL INFORMATION ON FARMING PRACTICES WHICH CAN HELP INCREASE YIELDS	DURING THE FIELD VISITS THE AGENCIES GIVE USEFUL INFORMATION ON FARMING PRACTICES WHICH CAN HELP INCREASE YIELDS
FOR ME TO HAVE A GOOD PRODUCTION AT THE END OF THE SEASON.	FOR ME TO HAVE A GOOD PRODUCTION AT THE END OF THE SEASON.
HE FOLLOWED THE PROTOCOL CAUSE IT HELPED HIM UNDERSTAND WHEN TO PLANT HIS CORN	HE FOLLOWED THE PROTOCOL CAUSE IT HELPED HIM UNDERSTAND WHEN TO PLANT HIS CORN
I DONT HAVE THE PLOUGH TO PLANT ON TIME SO I WALK FOR OTHERS TO FINISH FIRST THUS I PLANT VERY LATE	I DONT HAVE THE PLOUGH TO PLANT ON TIME SO I WALK FOR OTHERS TO FINISH FIRST THUS I PLANT VERY LATE
I FOLLOW BECAUSE I WANT MY PRODUCE TO BE OF GOOD QUALITY	I FOLLOW BECAUSE I WANT MY PRODUCE TO BE OF GOOD QUALITY
I FOLLOW CAUSE IT HELPS ME TO HAVE A GOOD HARVEST.	I FOLLOW CAUSE IT HELPS ME TO HAVE A GOOD HARVEST.
I FOLLOW IN ORDER TO GET GOOD RESOURCES OF MY CORN.	I FOLLOW IN ORDER TO GET GOOD RESOURCES OF MY CORN.
I FOLLOW THEM BECAUSE THEY HELP ME TO HAVE KNOWLEDGE ON FARMING	I FOLLOW THEM BECAUSE THEY HELP ME TO HAVE KNOWLEDGE ON FARMING
I FOLLOW THESE PROTOCOL BECAUSE THEY HELP ME HAVE A GOOD FARMING SEASON.	I FOLLOW THESE PROTOCOL BECAUSE THEY HELP ME HAVE A GOOD FARMING SEASON.
IN ORDER TO KNOW HOW TO GROW OTHER CROPS	IN ORDER TO KNOW HOW TO GROW OTHER CROPS
IN ORDER TO KNOW HOW TO PLANT	IN ORDER TO KNOW HOW TO PLANT
IN ORDER TO PRODUCE HIGH YIELD	IN ORDER TO PRODUCE HIGH YIELD

IT HAS AN ADVANTAGE OF HIGH YIELD. REDUCE LABOUR	IT HAS AN ADVANTAGE OF HIGH YIELD. REDUCE LABOUR
IT HAS HELPED IMPROVE AND DEVELOPE THE FARMING SKILLS/METHOD	IT HAS HELPED IMPROVE AND DEVELOPE THE FARMING SKILLS/METHOD
IT HELPED GETTING A YIELD THAT WAS BETTER THAN LAST TIME	IT HELPED GETTING A YIELD THAT WAS BETTER THAN LAST TIME
IT IS BENEFICIAL AND WHERE I DO NOT UNDERSTAND I REFER TO THE ADVISOR.	IT IS BENEFICIAL AND WHERE I DO NOT UNDERSTAND I REFER TO THE ADVISOR.
NA	NA
RAIN IN ZAMBIA IS NOT BALANCED SO ONE PLANTS ONCE SEES THE RAINS	RAIN IN ZAMBIA IS NOT BALANCED SO ONE PLANTS ONCE SEES THE RAINS
SO THAT THEY MAY KNOW HOW TO PLANT AND GROW OTHER CROPS	SO THAT THEY MAY KNOW HOW TO PLANT AND GROW OTHER CROPS
THE AGENTS USUALLY COME TO TELL/TEACH US ON THE BEST FARMING METHODS WO WE FOLLOW	THE AGENTS USUALLY COME TO TELL/TEACH US ON THE BEST FARMING METHODS WO WE FOLLOW
THE FIELD AGENTS ENCOURAGE US TO APPLY THE BEST FARMING PRACTICES AND IT IS HELPFUL IN THE LONG RUN	THE FIELD AGENTS ENCOURAGE US TO APPLY THE BEST FARMING PRACTICES AND IT IS HELPFUL IN THE LONG RUN
THERE IS NOTHING MUCH APART FROM THE FARMVISITS AND FIELD DAYS THEY CONDUCT	THERE IS NOTHING MUCH APART FROM THE FARMVISITS AND FIELD DAYS THEY CONDUCT
THEY ADVISED ME ON THE RIGHT FARMING METHODS AND FREQUENTLY VISITS THE FARM	THEY ADVISED ME ON THE RIGHT FARMING METHODS AND FREQUENTLY VISITS THE FARM
THEY CAME TO VISIT THE FARMS AND ENCOURAGE US, NOTHING MUCH	THEY CAME TO VISIT THE FARMS AND ENCOURAGE US, NOTHING MUCH
THEY HAVE TOLD US WE SHOULD WEED EARLY SO THE MAIZE GROWS IN A GOOD WAY,WHICH IS GOOD ADVICE	THEY HAVE TOLD US WE SHOULD WEED EARLY SO THE MAIZE GROWS IN A GOOD WAY,WHICH IS GOOD ADVICE
TO BE A GOOD FARMER	TO BE A GOOD FARMER
TO RECIEVE AND GET GOOD HELP FROM THEM AND ALSO HEAR ON THINGS THAT WE DONT KNOW ON FARMING	TO RECIEVE AND GET GOOD HELP FROM THEM AND ALSO HEAR ON THINGS THAT WE DONT KNOW ON FARMING
TRY TO GET HIGH YIELD. MAXIMISE ON PROFIT	TRY TO GET HIGH YIELD. MAXIMISE ON PROFIT
WHEN YOU FOLLOW RECOMMENDED GROWING PROTOCOL THE YIELD INCREASES	WHEN YOU FOLLOW RECOMMENDED GROWING PROTOCOL THE YIELD INCREASES
as a farmer all i need is better growth	as a farmer all i need is better growth
as my dream to keep on getting better yields each year. i need technical support from the manufacturers	as my dream to keep on getting better yields each year. i need technical support from the manufacturers
as part of a farming program i need to get new ways to maximize on yields	as part of a farming program i need to get new ways to maximize on yields
attempt to get the best yield in my farming	attempt to get the best yield in my farming
because i want to improve my farming skills	because i want to improve my farming skills
because it does not help me very much	because it does not help me very much
because it gives good quality corn	because it gives good quality corn
because it helps me to have a good plan on how i should farm	because it helps me to have a good plan on how i should farm
because it is valuable and profitable	because it is valuable and profitable
because it take too much time for growing maize with so much details	because it take too much time for growing maize with so much details
because it takes all that is needed for farming in good time	because it takes all that is needed for farming in good time
because no follow-ups were being made after launching the program	because no follow-ups were being made after launching the program

because of the changes in rainfall patterns some of the procedures had to be skipped	because of the changes in rainfall patterns some of the procedures had to be skipped
because some of the points helps me in my farming	because some of the points helps me in my farming
because they discovered that at helps	because they discovered that at helps
because it is a good program where i get time to understand and get best varieties of seeds	because it is a good program where i get time to understand and get best varieties of seeds
commercial and technical engagement.	commercial and technical engagement.
enrolled in the program with the hope that my yields will get better but the agents are not regular	enrolled in the program with the hope that my yields will get better but the agents are not regular
expands my knowledge helps me in soil conservation	expands my knowledge helps me in soil conservation
for best results and crop protection	for best results and crop protection
for better crop development and high harvest	for better crop development and high harvest
for better yields but am fully responsible for my own farming	for better yields but am fully responsible for my own farming
for the best results and safety	for the best results and safety
forget most of the proceder	forget most of the proceder
good quality corn	good quality corn
grower support program	grower support program
helped in soil management of my farmland	helped in soil management of my farmland
how to grow maize very well in this area and it help me to have a better yield than if i dont follow	how to grow maize very well in this area and it help me to have a better yield than if i dont follow
i do not follow the program at all	i do not follow the program at all
i dont because can not manage to follow all of them you pay a fee	i dont because can not manage to follow all of them you pay a fee
i dont have full trust in them	i dont have full trust in them
i dont have time and trust to follow the procedures	i dont have time and trust to follow the procedures
i dont rely on my own knowledge	i dont rely on my own knowledge
i follow because it helped me produce good yield	i follow because it helped me produce good yield
i forget on how to follow same of the procedures	i forget on how to follow same of the procedures
i forgot procedure	i forgot procedure
i make choices and decisions based on my own preferred methods	i make choices and decisions based on my own preferred methods
i need to get better each day in farming season.	i need to get better each day in farming season.
i no longer get any better support from syngenta team.	i no longer get any better support from syngenta team.
i want to produce high yield	i want to produce high yield
idont have time to follow everything	idont have time to follow everything
it has helped women achieve growth in harvest	it has helped women achieve growth in harvest
it helps in the way of growing and protection from pests/diseases.to know the best seed to use	it helps in the way of growing and protection from pests/diseases.to know the best seed to use
it helps in the way of growing.to know the best seed to use	it helps in the way of growing.to know the best seed to use
it is a recommended way of farming. to get the best yield.	it is a recommended way of farming. to get the best yield.
it is cheaper to belong to a cooperative. free advice without payment or commitment to purchase prducts.	it is cheaper to belong to a cooperative. free advice without payment or commitment to purchase prducts.

it was clear from training,i knew it will be very helpful	it was clear from training,i knew it will be very helpful
it was clear that it will be very helpful	it was clear that it will be very helpful
it was true and very helped	it was true and very helped
keeping records. start a business. banking profits	keeping records. start a business. banking profits
lack of encouragement from the owners of the plan	lack of encouragement from the owners of the plan
learnt about farming techniques but bought everything by myself	learnt about farming techniques but bought everything by myself
less farming inputs not enough money	less farming inputs not enough money
meeting with mri and pannar teams as their representatives for the maize campaign.	meeting with mri and pannar teams as their representatives for the maize campaign.
modern farming methods and practices	modern farming methods and practices
more reliable than the cooperatives who take long to come to my farm	more reliable than the cooperatives who take long to come to my farm
more techniques are required on products after our purchases for best results	more techniques are required on products after our purchases for best results
mri only shares and and support based on my purchase quotas.so it is more commercial.	mri only shares and and support based on my purchase quotas.so it is more commercial.
never had a growth plan apart from a demo-farm	never had a growth plan apart from a demo-farm
no new protocols i have learnt this season. using my old systems of past year	no new protocols i have learnt this season. using my old systems of past year
old age cant see clearly rely on them for news technology	old age cant see clearly rely on them for news technology
on planting. on soil preparation. on harvest.	on planting. on soil preparation. on harvest.
only followed when they came and nothing happened afterwards	only followed when they came and nothing happened afterwards
only when the agricultural extension officers come to visit and educate us at the cooperative.	only when the agricultural extension officers come to visit and educate us at the cooperative.
only whenever there is need	only whenever there is need
overall yield increament	overall yield increament
pannar support our farming activities	pannar support our farming activities
plan introduced but no execution is done on what cpp or fertilizer to get from mri	plan introduced but no execution is done on what cpp or fertilizer to get from mri
safety in cpp use	safety in cpp use
so that i benefit from good harvest	so that i benefit from good harvest
the demo farm has not been active this season.	the demo farm has not been active this season.
the mr1 team nolonger come to my farm as before.	the mr1 team nolonger come to my farm as before.
the procedure are just to much	the procedure are just to much
there is a positive output once followed. the agricultural officer helped me get better and more yields	there is a positive output once followed. the agricultural officer helped me get better and more yields
there is too much protocols,that it takes much of my time	there is too much protocols,that it takes much of my time
things became better	things became better
to get best from corn growing like other growers.	to get best from corn growing like other growers.
to get better produce	to get better produce
to get better produce compared to the other growers	to get better produce compared to the other growers



to have good yields	to have good yields
to help keep my soil good for a long time for good harvest	to help keep my soil good for a long time for good harvest
to help keep my soil good for a long time of good harvest after harvest	to help keep my soil good for a long time of good harvest after harvest
was hopping to have an increase in the yield	was hopping to have an increase in the yield
we need more yields and everyone tries what is possible	we need more yields and everyone tries what is possible
whenever the mr1 officers come to see how i am doing.	whenever the mr1 officers come to see how i am doing.
whenever there is a field officer for agricultural and and visits on public days	whenever there is a field officer for agricultural and and visits on public days

### Q397: Q397. Received a recommended growing protocol or crop program from an agricultural advisor?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	yes
2	no

### Q397C: Q397C. Did you receive a protocol/crop program from Syngenta?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	yes
2	no

## Q397D\_OTH: Q397.D. From which manufacturer have you received a protocol/crop program? OTHER

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
confidential	confidential

## Q35A\_1: Q35.A. What group/association/cooperative are a member of? 1ST

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
EVERGREEN COOPERATIVE	EVERGREEN COOPERATIVE
KABWEZA WOMEN COOPERATIVE	KABWEZA WOMEN COOPERATIVE
KANAKANTAPA MULTIPURPOSE CO-OPERATIVE SOCIETY	KANAKANTAPA MULTIPURPOSE CO-OPERATIVE SOCIETY
KUMBOSHI CO-OPERATIVE	KUMBOSHI CO-OPERATIVE
KWACHA MULTIPURPOSE CO-OPERATIVE SOCIETY	KWACHA MULTIPURPOSE CO-OPERATIVE SOCIETY
TUSEKELELE COOPERATIVE	TUSEKELELE COOPERATIVE
TUSHAMANO COOPERATIVE	TUSHAMANO COOPERATIVE
TUSHETT NO COOPERATIVE	TUSHETT NO COOPERATIVE
TUZENJA MULTIPURPOSE COOPERATIVE. (CHAIRMAN).	TUZENJA MULTIPURPOSE COOPERATIVE. (CHAIRMAN).
TWELEKESHE COOPERATIVE	TWELEKESHE COOPERATIVE
evergreen coooperative society.	evergreen cooperative society.
evergreen cooperative	evergreen cooperative
kamaila multipurpose co-operative	kamaila multipurpose co-operative
kamusa (co-operative)	kamusa (co-operative)
kamusa co-perative	kamusa co-perative
kamusa cooperative	kamusa cooperative

kamusa cooperative society	kamusa cooperative society
kamusa multi-purpose cooperative (chairperson)	kamusa multi-purpose cooperative (chairperson)
kamusa multipurpose cooperative	kamusa multipurpose cooperative
kamusaa	kamusaa
kamusaa coop society	kamusaa coop society
kamusi multipurpose	kamusi multipurpose
kanakantaka multi-purpose co-operative	kanakantaka multi-purpose co-operative
kanakantapa	kanakantapa
kanakantapa coop	kanakantapa coop
kanakantapa cooperative	kanakantapa cooperative
kanakantapa cooperative society	kanakantapa cooperative society
kanakantapa multi purpose cooperative society	kanakantapa multi purpose cooperative society
kanakantapa multi-purpose co-operative	kanakantapa multi-purpose co-operative
kanakantapa multi-purpose co-operative society	kanakantapa multi-purpose co-operative society
kanakantapa multipurpose cooperative	kanakantapa multipurpose cooperative
kanakantapa multipurpose cooperative society	kanakantapa multipurpose cooperative society
kanakantapa multipurpose cooperative.	kanakantapa multipurpose cooperative.
kanakantapa women association	kanakantapa women association
kanakantapa women multi-purpose	kanakantapa women multi-purpose
katete coop society	katete coop society
komboshi cooperative	komboshi cooperative
kumboshi cooperative	kumboshi cooperative
kwacha multipurpose co-operative	kwacha multipurpose co-operative
kwacha multipurpose cooperative	kwacha multipurpose cooperative
tibwilizane cooperative	tibwilizane cooperative
tigwili zane cooperative	tigwili zane cooperative
tuzenje cooperative society	tuzenje cooperative society
tuzenje multipurpose cooperative	tuzenje multipurpose cooperative

## Q35A\_2: Q35.A. What group/association/cooperative are a member of? 2ND

Data file: Global\_farm\_data

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

CATEGORIES

Value	Category
NA	NA
early association of kanakantapa(zafawed)	early association of kanakantapa(zafawed)
kumboshi coop	kumboshi coop
zambia cooperative federation limited	zambia cooperative federation limited

### Q35A\_3: Q35.A. What group/association/cooperative are a member of? 3RD

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

#### Questions and instructions

##### CATEGORIES

Value	Category
NA	NA

### Q58: Q58. In general, what is the topography of your growing area?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	flat
2	gentle slope
3	steep slope
4	hilly

### Q58OTH: Q58. In general, what is the topography of your growing area? OTHER

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

## Questions and instructions

### CATEGORIES

Value	Category
.	.

## Q230\_1: Bought seeds

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

## Q230\_2: Saved seeds

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	not mentioned
2	mentioned

## Q4001: Q4001. % of crop lost in-between harvest and storage or selling ?

Data file: Global\_farm\_data

### Overview

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 0 - 80    Format: Numeric

### Q147: Q147. When have the young plants been planted ?

Data file: Global\_farm\_data

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

#### Questions and instructions

#### CATEGORIES

Value	Category
2013-10-30	2013-10-30
2013-10-31	2013-10-31
2013-11-01	2013-11-01
2013-11-02	2013-11-02
2013-11-03	2013-11-03
2013-11-11	2013-11-11
2013-11-15	2013-11-15
2013-11-20	2013-11-20
2013-11-30	2013-11-30
2013-12-01	2013-12-01
2013-12-15	2013-12-15
2013-12-23	2013-12-23
2013-12-31	2013-12-31

### Q247\_1A: Q247. BUYER 1 % of yield

Data file: Global\_farm\_data

#### Overview

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 30 - 100    Format: Numeric

### Q247\_2A: Q247. BUYER 2 % of yield

Data file: Global\_farm\_data

#### Overview

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 20 - 70    Format: Numeric

---

**Q247\_1B: Q247. BUYER 1 price per metric ton****Data file: Global\_farm\_data****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 1400 - 4000    Format: Numeric

---

**Q247\_2B: Q247. BUYER 2 price per metric ton****Data file: Global\_farm\_data****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 1700 - 2500    Format: Numeric

---

**HARVESTYEAR: Data collection wave****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 2014 - 2019 Format: Numeric

**GROWINGAREA: To which field/plot does the information relate to?****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
A	A

**CLUSTERID: Unique cluster ID****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
ZambiaMaize1	ZambiaMaize1
ZambiaMaize1+2+3	ZambiaMaize1+2+3
ZambiaMaize2	ZambiaMaize2
ZambiaMaize3	ZambiaMaize3

**COUNTRY: Country****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character



## Questions and instructions

### CATEGORIES

Value	Category
Zambia	Zambia

### FARMTYPE: FARMTYPE

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
BF	BF
RF	RF

### GROWERID: Unique respondent ID

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
44100100	44100100
44100200	44100200
44100300	44100300
44100400	44100400
44100500	44100500
44100600	44100600
44100700	44100700
44100800	44100800
44100900	44100900

44102700	44102700
44103400	44103400
44106500	44106500
44106600	44106600
44106700	44106700
44106800	44106800
44106900	44106900
44107000	44107000
44107100	44107100
44107200	44107200
44201000	44201000
44201100	44201100
44201200	44201200
44201300	44201300
44201400	44201400
44201500	44201500
44201600	44201600
44201700	44201700
44201800	44201800
44201900	44201900
44202000	44202000
44202100	44202100
44202200	44202200
44202300	44202300
44202400	44202400
44202500	44202500
44202600	44202600
44202800	44202800
44202900	44202900
44203000	44203000
44203100	44203100
44203200	44203200
44203300	44203300
44203500	44203500
44203600	44203600
44203700	44203700
44203800	44203800
44203900	44203900
44204000	44204000

44204100	44204100
44204200	44204200
44204300	44204300
44204400	44204400
44204600	44204600
44204700	44204700
44204800	44204800
44204900	44204900
44205000	44205000
44205100	44205100
44205200	44205200
44205300	44205300
44205400	44205400
44205500	44205500
44205600	44205600
44205700	44205700
44205800	44205800
44205900	44205900
44206000	44206000
44206100	44206100
44206200	44206200
44206300	44206300
44206400	44206400
44207600	44207600

## PRODUCT: Unique code of a product within application

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
1	1
2	2
3	3

**CROP: The crop of focus****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Corn	Corn

**APPLICATION: Unique code of an application per field per grower****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
1	1
2	2

**Q241A: Q241 a. Timing of product application****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
2013-11-01	2013-11-01
2013-11-03	2013-11-03

2013-11-04	2013-11-04
2013-11-05	2013-11-05
2013-11-07	2013-11-07
2013-11-10	2013-11-10
2013-11-18	2013-11-18
2013-11-20	2013-11-20
2013-11-25	2013-11-25
2013-11-30	2013-11-30
2013-12-15	2013-12-15
2013-12-19	2013-12-19
2013-12-20	2013-12-20
2013-12-25	2013-12-25
2013-12-28	2013-12-28
2013-12-30	2013-12-30
2014-01-03	2014-01-03
2014-01-05	2014-01-05
2014-01-10	2014-01-10
2014-01-11	2014-01-11
2014-01-15	2014-01-15
2014-01-21	2014-01-21
2014-02-01	2014-02-01
2014-04-15	2014-04-15
2014-05-01	2014-05-01
2014-05-15	2014-05-15
2014-11-20	2014-11-20
2014-11-30	2014-11-30
2014-12-01	2014-12-01
2014-12-15	2014-12-15
2014-12-20	2014-12-20
2014-12-25	2014-12-25
2014-12-30	2014-12-30
2014-12-31	2014-12-31
2015-01-01	2015-01-01
2015-01-03	2015-01-03
2015-01-15	2015-01-15
2015-01-20	2015-01-20
2015-01-30	2015-01-30
2015-02-01	2015-02-01
2015-02-02	2015-02-02

2015-02-07	2015-02-07
2015-02-10	2015-02-10
2015-02-15	2015-02-15
2015-02-17	2015-02-17
2015-02-20	2015-02-20
2015-02-22	2015-02-22
2015-02-28	2015-02-28
2015-03-01	2015-03-01
2015-05-02	2015-05-02
2015-05-20	2015-05-20
2015-08-07	2015-08-07
2015-08-20	2015-08-20
2016-01-30	2016-01-30
2016-12-20	2016-12-20
2016-12-26	2016-12-26
2016-12-27	2016-12-27
2016-12-30	2016-12-30
2017-01-01	2017-01-01
2017-01-02	2017-01-02
2017-01-03	2017-01-03
2017-01-05	2017-01-05
2017-01-06	2017-01-06
2017-01-07	2017-01-07
2017-01-08	2017-01-08
2017-01-09	2017-01-09
2017-01-10	2017-01-10
2017-01-12	2017-01-12
2017-01-15	2017-01-15
2017-01-16	2017-01-16
2017-01-20	2017-01-20
2017-01-30	2017-01-30
2017-02-15	2017-02-15
2017-11-24	2017-11-24
2018-01-01	2018-01-01
2018-01-05	2018-01-05
2018-01-10	2018-01-10
2018-01-15	2018-01-15
2018-01-20	2018-01-20
2018-02-04	2018-02-04

2018-02-05	2018-02-05
2018-02-20	2018-02-20
2018-02-25	2018-02-25
2018-02-26	2018-02-26
2018-03-05	2018-03-05
2018-03-15	2018-03-15
2018-03-20	2018-03-20
2018-03-30	2018-03-30
2018-10-15	2018-10-15
2018-12-30	2018-12-30
2019-01-04	2019-01-04
2019-01-06	2019-01-06
2019-01-10	2019-01-10
2019-01-20	2019-01-20
2019-02-01	2019-02-01
2019-02-05	2019-02-05
2019-02-08	2019-02-08
2019-02-15	2019-02-15

## Q241B: Q241 b.Type of product

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	Herbicide
2	Insecticide
3	Fungicide

## Q241C: Q241 c . Brand product name

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
confidential	confidential

### Q241C1: Q241 c1. Brand product formulation

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
confidential	confidential

### C241C: CODED VARIABLE - stringcode

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
confidential	confidential

### C241CA1: CODED VARIABLE - active ingredient1

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character



## Questions and instructions

### CATEGORIES

Value	Category
AMMONIUM-COMPOUNDS	AMMONIUM-COMPOUNDS
AZADIRACTIN (NEEM-TREE-SEEDS-DERIV.)	AZADIRACTIN (NEEM-TREE-SEEDS-DERIV.)
CYPERMETHRIN	CYPERMETHRIN
D-TETRAMETHRIN	D-TETRAMETHRIN
DELTAMETHRIN	DELTAMETHRIN
DICHLORVOS	DICHLORVOS
Do not know	Do not know
FENITRITHION	FENITRITHION
FLUXAPYROXAD	FLUXAPYROXAD
GLYPHOSATE	GLYPHOSATE
LAMBDA CYHALOTHRIN	LAMBDA CYHALOTHRIN
PERMETHRIN	PERMETHRIN
RYANODINE	RYANODINE
TOPRAMEZONE	TOPRAMEZONE

### C241CP1: CODED VARIABLE - amount of ai1

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0.1 - 500 Format: Numeric

### C241CU1: CODED VARIABLE - unit (% or Gr)

Data file: Crop\_protection

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	g/l
2	percent

**C241CA2: CODED VARIABLE - active ingredient2****Data file:** Crop\_protection**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
CHLOREPYROPHOS	CHLOREPYROPHOS
CYPHENOTHIN	CYPHENOTHIN
DELTAMETHRIN	DELTAMETHRIN
DICAMBA	DICAMBA
FENITRITHION	FENITRITHION
PYRACLOSTROBINE	PYRACLOSTROBINE

**C241CP2: CODED VARIABLE - amount of ai2****Data file:** Crop\_protection**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 0.13 - 350    Format: Numeric

**C241CA3: CODED VARIABLE - active ingredient3****Data file:** Crop\_protection**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
PYRIPROXYFEN	PYRIPROXYFEN

**C241CP3: CODED VARIABLE - amount of ai3****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0.015 - 0.015 Format: Numeric

**C241CPT: CODED VARIABLE - total amount of ai****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 10 - 500 Format: Numeric

**Q241D: CODED VARIABLE Q241 d. Dosage ?****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 10 - 2500 Format: Numeric

**Q241E: CODED VARIABLE Q241 e. Unit of quantity****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	MILLILITER/HECT
2	GRAM/HECT

**Q241F: Q241 f. Amount of H2O solved in LITERS per****Data file:** Crop\_protection**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 3 - 500 Format: Numeric

**Q241G: Q241 g. Pest/disease/ weed targeted ?****Data file: Crop\_protection****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
all weeds	all weeds
army worms	army worms
armyworms	armyworms
armyworms; stalkborer;	armyworms; stalkborer;
cateroillers	cateroillers
caterpillar	caterpillar
caterpillars	caterpillars
caterpillers	caterpillers
cut worm	cut worm
cut worms	cut worms
cutwarms	cutwarms
cutworm	cutworm
cutworms	cutworms
cutworms;armyworms;	cutworms;armyworms;
cutworm	cutworm
fungi	fungi
herbs weeds	herbs weeds
insecticide	insecticide
insects	insects
maize rust	maize rust
pest	pest
pests	pests
pests-mites	pests-mites
rodents	rodents
stalkborer	stalkborer
star grass	star grass
stock borer	stock borer
termite aphids	termite aphids

termites insects	termites insects
weed	weed
weed targeted	weed targeted
weeds	weeds
worms	worms

## Q241H: Q241 h. Level of pest/ disease/ weed pressure

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	Medium pressure
2	Low pressure
3	High pressure

## Q241I: Q241 i. Percentage of the area treated against pests/ diseases/ weeds

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 5 - 100 Format: Numeric

## Q241J: Q241 j. Percentage of crop free of pests/ diseases/ weeds at harvest (in %)

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 10 - 100 Format: Numeric

## Q241K: Q241 k. Equipment type ?

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Motorized boom sprayer
2	Hand operated sprayers (e.g. knapsack),

## Q241N: Q241 n. What is the timing of the treatment - before crop-emergence or after crop-emergence

Data file: Crop\_protection

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	After crop-emergence (crop already emerged)
2	Before crop-emergence (soil is treated)

## SYNGENTA: CODED VARIABLE Syngenta product? (1 = YES; 0 = NO)

Data file: Crop\_protection

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	No
2	Yes

**HARVESTYEAR: Year in which the data was collected****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 2014 - 2019 Format: Numeric

**COUNTRY: Country****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Zambia	Zambia

**CLUSTERID: Unique identifier per cluster****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
ZambiaMaize1	ZambiaMaize1
ZambiaMaize1+2+3	ZambiaMaize1+2+3
ZambiaMaize2	ZambiaMaize2
ZambiaMaize3	ZambiaMaize3

**GROWERID: Unique identifier per grower****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 44100100 - 44207600 Format: Numeric

**GROWINGAREA: Field code (A or B)****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
A	A
B	B

**CORNER: Multiple corners of same field can be registered (only from 2018 onwards)****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
1	1
2	2
One gps location of each farm	One gps location of each farm
One gps location of each growingarea	One gps location of each growingarea

**GPS\_OPTION: gps\_option****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES



Value	Category
1	interviewer captures at least two points per field

## GPS\_SHAPE: Description of the field (from 2018 onwards)

Data file: Location

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	Irregular shape
2	Rectangle
3	Triangle

## Q22D\_LAT\_DEG: Latitude degrees

Data file: Location

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
confidential	confidential

## Q22D\_LAT\_MIN: Latitude minutes

Data file: Location

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
confidential	confidential

## Q22D\_LAT\_SEC: Latitude seconds

**Data file:** Location

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
confidential	confidential

## Q22D\_LON\_DEG: Longitude degrees

**Data file:** Location

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
confidential	confidential

## Q22D\_LON\_MIN: Longitude minutes

**Data file:** Location

### Overview

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### Questions and instructions

#### CATEGORIES

Value	Category
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confidential

confidential

**Q22D\_LON\_SEC: Longitude seconds****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
confidential	confidential

**REMARK\_AREA: Remark from the interviewer (2019 onwards)****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
ok	ok

**Q151: Q151. Open field or in a greenhouse?****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Open field

**Q1F: Q1. F. Would it be okay for you for this company to contact you with information on The GGP?****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Yes	Yes

**Q25: Q25. Farm address - postal code****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
10101	10101
23	23
360296	360296
36670	36670
5	5
50578	50578
97	97
99	99

**ADMIN\_LEVEL\_1: administrative area 1****Data file: Location****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

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### CATEGORIES

Value	Category
Central Province	Central Province
Lusaka Province	Lusaka Province

**HARVESTYEAR: Year in which the data was collected****Data file: Activities and Machinery (Q382)****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 2014 - 2019 Format: Numeric

**COUNTRY: Country****Data file: Activities and Machinery (Q382)****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Zambia	Zambia

**CROP: Crop****Data file: Activities and Machinery (Q382)****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category
Corn	Corn

**CLUSTERID: Unique identifier per cluster****Data file: Activities and Machinery (Q382)****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category
ZambiaMaize1	ZambiaMaize1
ZambiaMaize1+2+3	ZambiaMaize1+2+3
ZambiaMaize2	ZambiaMaize2
ZambiaMaize3	ZambiaMaize3

## FARMTYPE: Reference farms versus Benchmark farms

**Data file: Activities and Machinery (Q382)**

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Reference farm
2	Benchmark farm

## GROWERID: Unique identifier per grower

**Data file: Activities and Machinery (Q382)**

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Width: 12    Range: -    Format: character

## Questions and instructions

### CATEGORIES

Value	Category
44100100	44100100
44100200	44100200
44100300	44100300
44100400	44100400
44100500	44100500
44100600	44100600

44100700	44100700
44100800	44100800
44100900	44100900
44102700	44102700
44103400	44103400
44106500	44106500
44106600	44106600
44106700	44106700
44106800	44106800
44106900	44106900
44107000	44107000
44107100	44107100
44107200	44107200
44201000	44201000
44201100	44201100
44201200	44201200
44201300	44201300
44201400	44201400
44201500	44201500
44201600	44201600
44201700	44201700
44201800	44201800
44201900	44201900
44202000	44202000
44202100	44202100
44202200	44202200
44202300	44202300
44202400	44202400
44202500	44202500
44202600	44202600
44202800	44202800
44202900	44202900
44203000	44203000
44203100	44203100
44203200	44203200
44203300	44203300
44203500	44203500
44203600	44203600
44203700	44203700



44203800	44203800
44203900	44203900
44204000	44204000
44204100	44204100
44204200	44204200
44204300	44204300
44204400	44204400
44204500	44204500
44204600	44204600
44204700	44204700
44204800	44204800
44204900	44204900
44205000	44205000
44205100	44205100
44205200	44205200
44205300	44205300
44205400	44205400
44205500	44205500
44205600	44205600
44205700	44205700
44205800	44205800
44205900	44205900
44206000	44206000
44206100	44206100
44206200	44206200
44206300	44206300
44206400	44206400
44207500	44207500
44207600	44207600

## **GROWINGAREA: Field code (A or B)**

**Data file: Activities and Machinery (Q382)**

### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

### **Questions and instructions**

CATEGORIES

Value	Category
1	A
2	B

### ACTIVITY: Which activities did the grower do on his field?

Data file: Activities and Machinery (Q382)

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 20 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category
1	Clearing
2	Ploughing
3	Digging
4	Ridging
5	Ripping
6	Land levelling
7	Greenhouse management operations
8	Applying fertilizers
9	Mulching
10	Sowing or planting
11	Scouting for pests and diseases
12	Applying pesticides
13	Irrigating
14	Pruning
15	Weeding
16	Harvesting
17	Post handling
18	Processing
19	Transport
20	Seed Treatment

### MACHINERY: Did he use power driven equipment to complete this activity?

Data file: Activities and Machinery (Q382)

## Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 2    Format: Numeric

## Questions and instructions

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### CATEGORIES

Value	Category
1	Yes
2	No

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# study\_resources

## questionnaires

### 2014 GGP Questionnaire Master

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title 2014 GGP Questionnaire Master  
 language English  
 filename 2014 GGP Questionnaire Master.pdf

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### 2015 GGP Questionnaire Master

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title 2015 GGP Questionnaire Master  
 language English  
 filename 2015 GGP Questionnaire Master.pdf

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### 2016 GGP Questionnaire Master

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title 2016 GGP Questionnaire Master  
 language English  
 filename 2016 GGP Questionnaire Master.pdf

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### 2017 GGP Questionnaire Master

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title 2017 GGP Questionnaire Master  
 language English  
 filename 2017 GGP Questionnaire Master.pdf

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### 2018 GGP Questionnaire Master

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title 2018 GGP Questionnaire Master  
 language English  
 filename 2018 GGP Questionnaire Master.pdf

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### 2019 GGP Questionnaire Master

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title 2019 GGP Questionnaire Master  
 language English  
 filename 2019 GGP Questionnaire Master.pdf

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## reports

### Enabling a set change in farm efficiency (productivity brochure)

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title Enabling a set change in farm efficiency (productivity brochure)  
 language English  
 filename SYT-GGP-c1productivity-brochure.pdf

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## The Good Growth Plan Progress Data - Productivity 2019

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title The Good Growth Plan Progress Data - Productivity 2019  
language English  
filename SYT-GGP-c1productivity-description-2019\_0.pdf

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