

# Good Growth Plan 2018-2019

**Syngenta**

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

## Identification

### SURVEY ID NUMBER

NGA\_2018-2019\_GGP-P\_v01\_M\_v01\_A\_OCS

### TITLE

Good Growth Plan 2018-2019

### COUNTRY/ECONOMY

Name	Country code
Nigeria	NGA

### 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 Nigeria were selected based on the following criterion:

(a) Smallholder rice growers

located in Kano state

part of a cooperative

med-high technology adoption

also cultivate other crops (cotton, ground nut, vegetables, water melon)

BACKGROUND: some growers rent land

rain-fed fields, but growers have access to irrigation water (to supplement if needed)

Basic technology level (get training from NGO's)

Most growers also cultivate tomato, maize, vegetables

Most growers have a tractor available

RF plant Faro 44

## data\_collection

### DATES OF DATA COLLECTION

Start	End
2018	2019

## DATA COLLECTION MODE

Face-to-face [f2f]

## questionnaires

## 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 &amp; quality per crop - Field crops

d. Harvest timing &amp; quality per crop - Tree crops

e. Harvest timing &amp; quality per crop - Sugarcane

f. Harvest timing &amp; 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

## 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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- The micro dataset cannot be re-disseminated by users or shared with anyone other than the individuals that are granted access to the micro dataset by FAO.

## 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

## DDI DOCUMENT ID

DDI\_NGA\_2018-2019\_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

## DATE OF METADATA PRODUCTION

2023-01-30

## DDI DOCUMENT VERSION

Version 01 (January 2023): This metadata was downloaded from the FAO website (<https://microdata.fao.org/index.php/catalog>) and it is identical to FAO version (NGA\_2018-2019\_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	24
<b>Farm_level_data</b>	0	32
<b>Global_farm_data</b>	0	183
<b>Crop_protection</b>	0	30
<b>Location</b>	0	18
<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:	24

**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_a	Q233C. a. Timing of product application	
V28	q233c_b	Q233C. b.Type of product	
V29	q233c_c	Q233C. c. Brand product name	
V30	q233c_c2	Q233C. c2. Brand product formulation	
V31	c233c_c	CODED VARIABLE - stringcode	
V32	c233ca1	CODED VARIABLE - active ingredient1	
V33	c233cp1	CODED VARIABLE - amount of ai1	
V34	c233cu1	CODED VARIABLE - unit (% or Gr)	
V35	c233ca2	CODED VARIABLE - active ingredient2	
V36	c233cp2	CODED VARIABLE - amount of ai2	
V37	q233c_d	Q233C. d. PRODUCT 1: Dosage	
V38	q233c_e	Q233C. e. PRODUCT 1: Unit of quantity	
V39	q233c_f	Q233C. f. PRODUCT 1: Amount of H2O solved in LITERS per <HECT>	
V40	q233c_g	Q233C. g. PRODUCT 1: Pest/disease/ weed targeted	
V41	syngenta	CODED VARIABLE Syngenta product? (1 = YES; 0 = NO)	

total: 24

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

Cases: 0

variables: 32

**variables**

ID	Name	Label	Question
V42	HarvestYear	Data collection wave	
V43	Region	Syngenta's definition of Region	
V44	Territory	Syngenta's definition of Territory	
V45	GrowingArea	To which field/plot does the information relate to?	
V46	ClusterID	Unique cluster ID	
V47	country	Country	
V48	Farmtype	Farm type	
V49	GrowerID	Unique respondent ID	
V50	Crop	The crop of focus	
V51	AreaSize	Q57. Size of growing area A for <TARG1> in <HECT>	
V52	CropSize	Q5.Total cultivated area of <TARG1> in this season in <HECT>	
V53	FarmSize	Q6. Total size of your farm/cultivated area for all crops in <HECT>	
V54	Landproductivity	Land efficiency in ton/ha	
V55	PesticideApplicationEfficiency	Number of field applications used per ton produced	
V56	NutrientEfficiency	Kgs of nitrogen used per ton produced	
V57	PhosphorusEfficiency	Kgs of phosphorus used per ton produced	
V58	PotassiumEfficiency	Kgs of potassium used per ton produced	
V59	SeedEfficiency	Kgs of seeds used per ton produced	
V60	PesticideEfficiency	Kgs of active ingredients from pesticides used in kilogram per ton produced	
V61	HerbicideEfficiency	Kgs of active ingredients from herbicides used per ton produced	
V62	FungicideEfficiency	Kgs of active ingredients from fungicides used per ton produced	
V63	InsecticideEfficiency	Kgs of active ingredients from insecticides used per ton produced	
V64	IrrigationWaterEfficiency	Litres of irrigation water used per ton produced	
V65	LaborEfficiency	Amount of labor hours per unit of crop output produced	
V66	MachineryEfficiency	Amount of machinery used in hours per unit of crop output produced	
V67	SyngentaShare	Percentage of syngenta products used compared to total number of products used	
V68	User_vs_non_user	Does the grower use Syngenta products?	
V69	protocol	have received a crop program and/or any recommendations this season?	
V70	field_preparation	Date of first field preparation	
V71	planting_date	Date of sowing or planting	
V72	harvest_begin	Date when harvest started	
V73	harvest_end	Date when harvest ended	

total: 32

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

Cases:	0
variables:	183

**variables**

ID	Name	Label	Question
V74	Territory	Syngenta definition of territory (sub-region)	
V75	country	Country	
V76	ClusterID	Unique cluster ID	
V77	GrowerID	Unique respondent ID	
V78	GrowingArea	To which field/plot does the information relate to?	
V79	Farmtype	Farmtype	
V80	q1c3	Q1.C3. Since you have participated before, we'd like to share with you your individual performance report	
V81	q1f	Q1. F. Would it be okay for you for Syngenta to contact you with follow-up information on The Good Growth Plan?	
V82	crop	Crop of focus	
V83	q56A2_99	Q56A2. Growing area changed from previous year? Don't know / no answer	
V84	q57a	Q57A. How certain you are of the size indication for growing area A?	
V85	q4055	Q4055. TON/HEC Yield objective for area A for <CROP> at beginning of this season?	
V86	q19	Q19. Surname	
V87	q20	Q20. First name	
V88	q21	Q21. Phone number	
V89	q22	Q22. E-mail address	
V90	q27	Q27. Year of birth	
V91	q28	Q28. Gender	
V92	q31	Q31. Until what age did you go to school?	
V93	q30	Q30. Are you a full-time or part-time farmer?	
V94	q30b	Q30. B. How long have you been engaged in farming activities?	
V95	q33	Q33. Did you receive an agronomical/agricultural education?	
V96	q34	Q34. Are you a member of a producer group, association or cooperative for <CROP>?	
V97	q35c	Q35. C. Overall, how satisfied would you say you are with your life these days?	
V98	q37a	Q37.A. Do you have signs of soil erosion by water on	
V99	q37b	Q37.B. Do you have signs of soil erosion by wind on your farm?	
V100	q7001	Q7001. Have you changed your tillage practices for <TARGET CROP> in the past 20 years?	
V101	q7002	Q7002. How did you change your tillage practices for <TARGET CROP>?	
V102	q7003	Q7003. How many years ago did you change your tillage practices for <TARGET CROP>?	
V103	q7004	Q7004. Have you grown cover crop to manage soil health in the past 20 years for <CROP>?	
V104	q7005	Q7005. How many years ago did you start growing a cover crop for <TARGET CROP> ?	
V105	q7006	Q7006 Have you stopped growing a cover crop in the past 20 years for <TARGET CROP>?	
V106	q7007	Q7007. How many years ago did you stop growing a cover crop for <TARGET CROP>?	
V107	q7008	Q7008. For <Crop> was any land converted from arable land/grassland/forest in the past 20 years?	
V108	q7009	Q7009. How did the use of your land change for <TARGET CROP>?	
V109	q7010	Q7010. How many years ago did the function of your land change for <TARGET CROP>?	

ID	Name	Label	Question
V110	q65	Q65. Do you practice intercropping for <TARGET CROP> ?	
V111	q66_7	Q66. Which crops do you intercrop? Corn	
V112	q66_12	Q66. Which crops do you intercrop? Pepper	
V113	q66_13	Q66. Which crops do you intercrop? Potato	
V114	q66_14	Q66. Which crops do you intercrop? Rice	
V115	q66_15	Q66. Which crops do you intercrop? Soybean	
V116	q66_19	Q66. Which crops do you intercrop? Tomato	
V117	q66_20	Q66. Which crops do you intercrop? Watermelon	
V118	q66_21	Q66. Which crops do you intercrop? Wheat	
V119	q66_30	Q66. Which crops do you intercrop? Cabbage	
V120	q66_32	Q66. Which crops do you intercrop? Cassava	
V121	q66_40	Q66. Which crops do you intercrop? Cover crop	
V122	q66_41	Q66. Which crops do you intercrop? Cucumber	
V123	q66_62	Q66. Which crops do you intercrop? Millet	
V124	q66_67	Q66. Which crops do you intercrop? Onion	
V125	q66_80	Q66. Which crops do you intercrop? Pulses (lentils, beans, peas)	
V126	q66_91	Q66. Which crops do you intercrop? Sorghum	
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_12	Q61. What crops are you cultivating in rotation? Pepper	
V130	q61_13	Q61. What crops are you cultivating in rotation? Potato	
V131	q61_14	Q61. What crops are you cultivating in rotation? Rice	
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_19	Q61. What crops are you cultivating in rotation? Tomato	
V135	q61_20	Q61. What crops are you cultivating in rotation? Watermelon	
V136	q61_21	Q61. What crops are you cultivating in rotation? Wheat	
V137	q61_62	Q61. What crops are you cultivating in rotation? Millet	
V138	q61_67	Q61. What crops are you cultivating in rotation? Onion	
V139	q61_69	Q61. What crops are you cultivating in rotation? Other peppers	
V140	q61_80	Q61. What crops are you cultivating in rotation? Pulses (lentils, beans, peas)	
V141	q61_91	Q61. What crops are you cultivating in rotation? Sorghum	
V142	q61_96	Q61. What crops are you cultivating in rotation? Other. Specify 1	
V143	q67	Q67. What is the soil type of growing area A for <TARGET CROP>?	
V144	q67b	Q67B. Texture is your soil on growing area A for <TARGET CROP> this season?	
V145	q7011	Q7011. How moist would rate your soil on growing area A for <TARGET CROP> this season?	
V146	q7012	Q7012 Rate the drainage of water through the soil on area A for <TARGET CROP> this season?	
V147	q55e1	Q55E1.Partook in training/meeting on crop/agricultural practices in the past 2 years?	
V148	q5500	Q5500. During the training/meeting, at least 15 minutes talking about safe-use practices	
V149	q55E2_1	Q55E2. Who organized this training? Syngenta representative	
V150	q55E2_3	Q55E2. Who organized this training? Extension officer	
V151	q55E2_4	Q55E2. Who organized this training? Cooperative	
V152	q55E2_5	Q55E2. Who organized this training? Agronomist/advisor	
V153	q55E2_7	Q55E2. Who organized this training? Governmental organization (e.g. Ministry)	
V154	q55E2_96	Q55E2. Who organized this training? Other specify 1:	

ID	Name	Label	Question
V155	q55E2_97	Q55E2. Who organized this training? Other specify 2:	
V156	q55E2_99	Q55E2. Who organized this training? Don't know / no answer	
V157	q5501	Q5501. Have you been contacted by a Syngenta representative during the past season?	
V158	q5502_1	Q5502. Can you describe how the Syngenta representative contacted you? Demonstration day	
V159	q5502_2	Q5502. Can you describe how the Syngenta representative contacted you? They visited my farm	
V160	q5502_3	Q5502. Can you describe how the Syngenta representative contacted you? Received a brochure	
V161	q5502_4	Q5502. Can you describe how the Syngenta representative contacted you? Phone call	
V162	q5502_96	Q5502. Can you describe how the Syngenta representative contacted you? Other specify 1:	
V163	q5503	Q5503. How useful was contact with the Syngenta Representative	
V164	q4041a	Q4041.A. Do you feel the need to follow training on crop cultivation in the near future?	
V165	q72	Q72. When did the first field preparation start for growing area A for <TARGET CROP> ?	
V166	q73	Q73. KGs/HECT of seeds sown for growing area A for <TARGET CROP>	
V167	Q7014a	Q7014.A. Do you cultivate rice in a drought prone environment?	
V168	q74	Q74. When was the crop sown / planted for growing area A for <TARGET CROP>?	
V169	q7400	Q7400. Have you sown/planted <TARGET CROP> in the same period as last year?	
V170	q231b	Q231B. Are your seeds coated with crop protection products?	
V171	q233	Q233. Do you use on-farm or pre-treated seed treatment to treat the seeds for growing area A for <TARGET CROP>?	
V172	q397new	Q397_NEW. If you have received a crop program and/or any recommendations for growing to implement this season.	
V173	q224a	Q224 A. Did you perform a soil test for <TARGET CROP>?	
V174	q224	Q224. Do you apply organic fertilizers for <TARGET CROP>?	
V175	q226	Q226. Do you apply chemical fertilizers for <TARGET CROP>?	
V176	q229b1	Q229B1.Total number of applications you perform with chemical fertilizers on growing area for <TARGET CROP>?	
V177	q229b2	Q229B2.Total number of applications you perform with organic fertilizers on growing area for <TARGET CROP>?	
V178	q240e_1	Q240E. We would like to better understand the pest pressure on the selected growing areas. INSECT PRESSURE	
V179	q240e_2	Q240E. We would like to better understand the pest pressure on the selected growing areas. DISEASE PRESSURE	
V180	q240e_3	Q240E. We would like to better understand the pest pressure on the selected growing areas. WEED PRESSURE	
V181	q240en	Q240.E1. Do you generally use drift-reducing nozzles on your sprayer?	
V182	q240d	Q240D. Note down the total number of treatments you perform with crop protection products	
V183	q75	Q75. What is the final stand i.e. the number of plants - per <SQUARE METER>/<TARGET CROP>?	
V184	q76	Q76. Prior to harvest, indicate the percentage of the plot area that is lodged for <TARGET CROP>?	
V185	q243a	Q243. When was the harvest period for <TARGET CROP>?	
V186	q243b	Q243. When was the harvest period for <TARGET CROP>?	
V187	q243bb	Q243b. Have you harvested <TARGET CROP> in the same period as last year?	
V188	q244	Q244. Marketable yield that has been achieved for growing area A for <TARGET CROP> in <TON> per <HECTARES>?	
V189	q4094_1	Q4094. Who measured the yield on each of the growing areas? Myself	
V190	q4094_2	Q4094. Who measured the yield on each of the growing areas? Dealer/store	

ID	Name	Label	Question
V191	q4094_3	Q4094. Who measured the yield on each of the growing areas? Manufacturer/representative	
V192	q4094_4	Q4094. Who measured the yield on each of the growing areas? Independent advisor	
V193	q4095a	Q4095. A. Compared to previous year, would you say your yield has ...?	
V194	q4096a	Q4096. A. How satisfied are you with your yield this season?	
V195	q4097a	Q4097. A. How satisfied are you with the price you received on the market?	
V196	q251	Q251. % of crop damaged at the time of harvest (total lost - not marketable) for <TARGET CROP>?	
V197	q246_1	Q246. % of the harvest of your target crop is used for own consumption	
V198	q246_2	Q246. % of the harvest of your target crop is used for feeding livestock	
V199	q246_3	Q246. % of the harvest of your target crop is used for harvest sold	
V200	q4002	Q4002. Did you take measures to prevent post-harvest loss for <TARGET CROP>?	
V201	q377	Q377. What is the estimated revenue in <DOLLAR>/<HECTARES> for growing area A of <TARGET CROP>?	
V202	q379	Q379.A Can you please explain your answer for <TARGET CROP>?	
V203	q380	Q380. What is your total input cost for <TARGET CROP> from first field preparation until harvest?	
V204	q4111_1	Q4111. Actual costs SEEDS for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V205	q4111_2	Q4111. Actual costs FERTILIZERZ for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V206	q4111_3	Q4111. Actual costs LABOR for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V207	q4111_4	Q4111. Actual costs MACHINERY <TARGET CROP>?<DOLLAR>/<HECTARES>	
V208	q4111_5	Q4111. Actual costs WATER USE for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V209	q4111_6	Q4111. Actual costs FUEL for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V210	q4111_7	Q4111. Actual costs RENT/LOAN for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V211	q4111_8	Q4111. Actual costs FUNGICIDES for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V212	q4111_9	Q4111. Actual costs HERBICIDES for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V213	q4111_10	Q4111. Actual costs INSECTICIDES <TARGET CROP>?<DOLLAR>/<HECTARES>	
V214	q4111_98	Q4111. Actual costs DRYING for <TARGET CROP>?<DOLLAR>/<HECTARES>	
V215	q381_1	Q381. Percentage of TREES/SEED costs out of the total input cost for <TARGET CROP>?	
V216	q381_2	Q381. Percentage of FERTILIZERS costs out of the total input cost for <TARGET CROP>?	
V217	q381_3	Q381. Percentage of PESTICIDES costs out of the total input cost for <TARGET CROP>?	
V218	q381_4	Q381. Percentage of LABOR costs out of the total input cost for <TARGET CROP>?	
V219	q381_5	Q381. Percentage of MACHINERY costs of the total input cost for <TARGET CROP>?	
V220	q381_6	Q381. Percentage of WATER USE costs out of the total input cost for <TARGET CROP>?	
V221	q381_7	Q381. Percentage of FUEL costs out of the total input cost for <TARGET CROP>?	
V222	q381_8	Q381. Percentage of ELECTRICITY costs out of the total input cost for <TARGET CROP>?	
V223	q381_9	Q381. Percentage of GAS costs out of the total input cost for <TARGET CROP>?	
V224	q381_10	Q381. Percentage of RENT/LOAN costs out of the total input cost for <TARGET CROP>?	
V225	q381_98	Q381. Percentage of OTHER costs out of the total input cost for <TARGET CROP>?	
V226	q4121	Q4121. In general for the whole cultivation period, rate the weather conditions for <TARGET CROP>?	
V227	q387_1	Q387. What was the impact for target crop? Reduced yield	
V228	q387_2	Q387. What was the impact for target crop? Reduced yield quality	
V229	q387_3	Q387. What was the impact for target crop? No impact	
V230	q388	Q388. How would you say the level of rainfall was for growing area A	
V231	q388b	Q388. B. You mentioned you had less rainfall this season than usual. Was this problematic?	
V232	q388d	Q388D. You mentioned you had more rainfall this season than usual. Was this problematic?	
V233	q3880	Q3880. How would you say the temperature was during this season ?	

ID	Name	Label	Question
V234	q3880b	Q3880 B. You mentioned you had lower temperatures this season than usual. Was this problematic?	
V235	q3880d	Q3880 D. You mentioned you had higher temperatures this season than usual. Was this problematic?	
V236	q389	Q389. What is the MAIN water source of <TARGET CROP> during this season?	
V237	q390	Q390. What is the number of days you have been irrigating <TARGET CROP>?	
V238	q391	Q391. What is the average amount of hours per day you have been irrigating of <TARGET CROP>?	
V239	q392	Q392. What is the amount of liters that is discharged per hour of <TARGET CROP>?	
V240	q7016	Q7016. Please indicate what percentage of the area is irrigated for <TARGET CROP>	
V241	q7017	Q7017. Which method of irrigation did you apply for <TARGET CROP>?	
V242	q399c	Q399.C. How satisfied are you with the crop program and/or recommendations for <TARGET CROP>?	
V243	date1	field preparation	
V244	date2	sowing/planting	
V245	date3a	begin harvest	
V246	date3b	end harvest	
V247	harvestyear	Data collection wave	
V248	q4000_1	q4000_1. To whom do you sell your yield - I sell it on the local market	
V249	q4000_2	q4000_2. To whom do you sell your yield - I sell it to a trader	
V250	q4000_3	q4000_3. To whom do you sell your yield - I sell it to a wholesaler	
V251	q4000_5	q4000_5. To whom do you sell your yield - I sell it to a cooperative I am part of	
V252	q4000_6	q4000_6. To whom do you sell your yield -I sell it under a contract	
V253	q389_1	q389_1. Which water source has been used for irrigation? Private connection to pipeline	
V254	q389_4	q389_4. Which water source has been used for irrigation? Public river, stream	
V255	q389_5	q389_5. Which water source has been used for irrigation? Public lake, pond	
V256	q399	Q399. Please explain why you follow or do not follow the crop program and/or recommendations.	

total: 183



**Data file: Crop\_protection**

Cases: 0

variables: 30

**variables**

ID	Name	Label	Question
V257	harvestyear	Data collection wave	
V258	GrowingArea	To which field/plot does the information relate to?	
V259	ClusterID	Unique cluster ID	
V260	country	Country	
V261	Farmtype	FARMTYPE	
V262	GrowerID	Unique respondent ID	
V263	product	Unique code of a product within application	
V264	crop	The crop of focus	
V265	application	Unique code of an application per field per grower	
V266	q241a	Q241 a. Timing of product application	
V267	q241b	Q241 b.Type of product	
V268	q241c	Q241 c . Brand product name	
V269	q241c1	Q241 c1. Brand product formulation	
V270	c241c	CODED VARIABLE - stringcode	
V271	c241ca1	CODED VARIABLE - active ingredient1	
V272	c241cp1	CODED VARIABLE - amount of ai1	
V273	c241cu1	CODED VARIABLE - unit (% or Gr)	
V274	c241ca2	CODED VARIABLE - active ingredient2	
V275	c241cp2	CODED VARIABLE - amount of ai2	
V276	c241cpt	CODED VARIABLE - total amount of ai	
V277	q241d	CODED VARIABLE Q241 d. Dosage ?	
V278	q241e	CODED VARIABLE Q241 e. Unit of quantity	
V279	q241f	Q241 f. Amount of H2O solved in LITERS per <HECTARE>	
V280	q241g	Q241 g. Pest/disease/ weed targeted ?	
V281	q241h	Q241 h. Level of pest/ disease/ weed pressure	
V282	q241i	Q241 i. Percentage of the area treated against pests/ diseases/ weeds	
V283	q241j	Q241 j. Percentage of crop free of pests/ diseases/ weeds at harvest (in %)	
V284	q241k	Q241 k. Equipment type ?	
V285	q241n	Q241 n. What is the timing of the treatment - before crop-emergence or after crop-emergence	
V286	syngenta	CODED VARIABLE Syngenta product? (1 = YES; 0 = NO)	

total: 30

**Data file: Location**

Cases:	0
variables:	18

**variables**

ID	Name	Label	Question
V287	harvestyear	Year in which the data was collected	
V288	country	Country	
V289	ClusterID	Unique identifier per cluster	
V290	GrowerID	Unique identifier per grower	
V291	GrowingArea	Field code (A or B)	
V292	CORNER	Multiple corners of same field can be registered (only from 2018 onwards)	
V293	gps_option	gps_option	
V294	gps_shape	Description of the field (from 2018 onwards)	
V295	q22d_lat_deg	Latitude degrees	
V296	q22d_lat_min	Latitude minutes	
V297	q22d_lat_sec	Latitude seconds	
V298	q22d_lon_deg	Longitude degrees	
V299	q22d_lon_min	Longitude minutes	
V300	q22d_lon_sec	Longitude seconds	
V301	q151	Q151. Open field or in a greenhouse?	
V302	q1f	Q1. F. Would it be okay for you for this company to contact you with information on The GGP?	
V303	q25	Q25. Farm address - postal code	
V304	admin_level_1	administrative area 1	

total: 18

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

Cases: 0

variables: 9

**variables**

ID	Name	Label	Question
V305	harvestyear	Year in which the data was collected	
V306	country	Country	
V307	crop	Crop	
V308	ClusterID	Unique identifier per cluster	
V309	farmtype	Reference farms versus Benchmark farms	
V310	GrowerID	Unique identifier per grower	
V311	GrowingArea	Field code (A or B)	
V312	activity	Which activities did the grower do on his field?	
V313	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: 2018 - 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 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	A
2	B

**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
NigeriaRice1	NigeriaRice1

### COUNTRY: Country

Data file: fertilizers

#### Overview

Valid: 0 Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category
Nigeria	Nigeria

### 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

### CATEGORIES

Value	Category
54100100	54100100
54100500	54100500
54100700	54100700
54100800	54100800
54101200	54101200
54101300	54101300
54101600	54101600
54101700	54101700
54102100	54102100
54102300	54102300
54200200	54200200
54200300	54200300
54200400	54200400
54200600	54200600
54200900	54200900
54201000	54201000
54201100	54201100
54201400	54201400
54201500	54201500
54201800	54201800
54201900	54201900
54202000	54202000
54202200	54202200
54202400	54202400
54202500	54202500

**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
4	4

**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
Rice	Rice

**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
2018-06-01	2018-06-01
2018-06-02	2018-06-02
2018-06-07	2018-06-07
2018-06-14	2018-06-14
2018-06-15	2018-06-15
2018-06-19	2018-06-19
2018-06-23	2018-06-23
2018-06-25	2018-06-25
2018-06-28	2018-06-28



2018-06-30	2018-06-30
2018-07-01	2018-07-01
2018-07-02	2018-07-02
2018-07-05	2018-07-05
2018-07-07	2018-07-07
2018-07-10	2018-07-10
2018-07-12	2018-07-12
2018-07-15	2018-07-15
2018-07-16	2018-07-16
2018-07-17	2018-07-17
2018-07-18	2018-07-18
2018-07-19	2018-07-19
2018-07-20	2018-07-20
2018-07-21	2018-07-21
2018-07-22	2018-07-22
2018-07-28	2018-07-28
2018-07-30	2018-07-30
2018-07-31	2018-07-31
2018-08-01	2018-08-01
2018-08-02	2018-08-02
2018-08-03	2018-08-03
2018-08-04	2018-08-04
2018-08-05	2018-08-05
2018-08-06	2018-08-06
2018-08-09	2018-08-09
2018-08-15	2018-08-15
2018-08-18	2018-08-18
2018-08-25	2018-08-25
2018-09-10	2018-09-10
2018-09-15	2018-09-15
2018-09-20	2018-09-20
2018-10-25	2018-10-25
2019-06-01	2019-06-01
2019-06-02	2019-06-02
2019-06-03	2019-06-03
2019-06-10	2019-06-10
2019-06-15	2019-06-15
2019-06-16	2019-06-16
2019-06-25	2019-06-25

2019-06-27	2019-06-27
2019-06-28	2019-06-28
2019-07-01	2019-07-01
2019-07-02	2019-07-02
2019-07-03	2019-07-03
2019-07-06	2019-07-06
2019-07-07	2019-07-07
2019-07-11	2019-07-11
2019-07-12	2019-07-12
2019-07-14	2019-07-14
2019-07-15	2019-07-15
2019-07-16	2019-07-16
2019-07-17	2019-07-17
2019-07-20	2019-07-20
2019-07-21	2019-07-21
2019-07-22	2019-07-22
2019-07-25	2019-07-25
2019-07-27	2019-07-27
2019-07-28	2019-07-28
2019-07-29	2019-07-29
2019-07-30	2019-07-30
2019-08-01	2019-08-01
2019-08-03	2019-08-03
2019-08-05	2019-08-05
2019-08-07	2019-08-07
2019-08-10	2019-08-10
2019-08-14	2019-08-14
2019-08-19	2019-08-19
2019-08-20	2019-08-20
2019-08-21	2019-08-21
2019-08-27	2019-08-27
2019-08-30	2019-08-30
2019-09-01	2019-09-01
2019-09-10	2019-09-10
2019-09-14	2019-09-14

## 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: 9.88 - 617.5 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 - 1235 Format: Numeric

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

Data file: fertilizers

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 15 - 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 - 20 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
Granular applicator	Granular applicator
Hand operated sprayers (e.g. knapsack),	Hand operated sprayers (e.g. knapsack),
Motorized boom sprayer	Motorized boom sprayer

---

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

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 2018 - 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
B	B

**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
NigeriaRice1	NigeriaRice1

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

Valid: 0    Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category
Nigeria	Nigeria

### 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
54100100	54100100
54100500	54100500
54100700	54100700
54100800	54100800
54101200	54101200
54101300	54101300
54101600	54101600
54101700	54101700
54102100	54102100

54102300	54102300
54200200	54200200
54200300	54200300
54200400	54200400
54200600	54200600
54200900	54200900
54201000	54201000
54201100	54201100
54201400	54201400
54201500	54201500
54201800	54201800
54201900	54201900
54202000	54202000
54202200	54202200
54202400	54202400
54202500	54202500

## 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
2	2
3	3
4	4
5	5

## 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
Rice	Rice

**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: 37.05 - 80.0033 Format: Numeric

**Q233C\_A: Q233C. a. Timing of product application**

**Data file:** seed\_treatment

### Overview

Valid: 0 Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category
2018-03-30	2018-03-30
2018-05-01	2018-05-01
2018-05-30	2018-05-30
2018-06-01	2018-06-01
2018-06-03	2018-06-03
2018-06-04	2018-06-04
2018-06-05	2018-06-05
2018-06-06	2018-06-06
2018-06-07	2018-06-07
2018-06-09	2018-06-09
2018-06-10	2018-06-10
2018-06-11	2018-06-11
2018-06-12	2018-06-12
2018-06-13	2018-06-13
2018-06-14	2018-06-14
2018-06-15	2018-06-15



2018-06-19	2018-06-19
2018-06-20	2018-06-20
2018-06-23	2018-06-23
2018-06-25	2018-06-25
2018-06-26	2018-06-26
2018-06-29	2018-06-29
2018-06-30	2018-06-30
2018-07-01	2018-07-01
2018-07-06	2018-07-06
2018-07-11	2018-07-11
2019-05-25	2019-05-25
2019-05-28	2019-05-28
2019-05-30	2019-05-30
2019-06-01	2019-06-01
2019-06-02	2019-06-02
2019-06-03	2019-06-03
2019-06-04	2019-06-04
2019-06-05	2019-06-05
2019-06-06	2019-06-06
2019-06-09	2019-06-09
2019-06-10	2019-06-10
2019-06-12	2019-06-12
2019-06-14	2019-06-14
2019-06-15	2019-06-15
2019-06-16	2019-06-16
2019-06-17	2019-06-17
2019-06-19	2019-06-19
2019-06-20	2019-06-20
2019-06-21	2019-06-21
2019-06-22	2019-06-22
2019-06-23	2019-06-23
2019-06-24	2019-06-24
2019-06-25	2019-06-25
2019-06-26	2019-06-26
2019-06-27	2019-06-27
2019-06-28	2019-06-28
2019-06-30	2019-06-30
2019-07-01	2019-07-01
2019-07-02	2019-07-02

2019-07-03	2019-07-03
2019-07-05	2019-07-05
2019-07-06	2019-07-06
2019-07-07	2019-07-07

## Q233C\_B: Q233C. b.Type of product

Data file: seed\_treatment

### Overview

Valid: 0 Invalid: 0

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

### Questions and instructions

#### CATEGORIES

Value	Category
1	Fungicide
2	Insecticide
3	Plant growth regulator/harvest aids/adjuvants
4	Herbicide

## Q233C\_C: Q233C. c. Brand product name

Data file: seed\_treatment

### Overview

Valid: 0 Invalid: 0

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

### Questions and instructions

#### CATEGORIES

Value	Category
confidential	confidential

## 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
BUTACHLOR	BUTACHLOR
DICHLORVOS	DICHLORVOS
Do not know	Do not know
GLYPHOSATE	GLYPHOSATE
INDOXACARB	INDOXACARB
LAMBDA CYHALOTHRIN	LAMBDA CYHALOTHRIN
MANCOZEB (VONDOZEB)	MANCOZEB (VONDOZEB)
NIKOSULPHURON	NIKOSULPHURON
OXADIARGYL	OXADIARGYL
PRETILACHLOR	PRETILACHLOR

**C233CP1: CODED VARIABLE - amount of ai1****Data file:** seed\_treatment**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 50 - 1000 Format: Numeric

**C233CU1: CODED VARIABLE - unit (% or Gr)****Data file:** seed\_treatment**Overview**

Valid: 0 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

Value	Category
%	%
g/l	g/l

**C233CA2: CODED VARIABLE - active ingredient2****Data file:** seed\_treatment**Overview**

Valid: 0 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

Value	Category
IMIDACLOPRID	IMIDACLOPRID
METALAXIL-M	METALAXIL-M
PYRIBENZOXIM	PYRIBENZOXIM

**C233CP2: CODED VARIABLE - amount of ai2****Data file:** seed\_treatment

## Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 4 - 150 Format: Numeric

### Q233C\_D: Q233C. d. PRODUCT 1: Dosage

Data file: seed\_treatment

## Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 18 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	100
2	80
3	2000
4	1000
5	617.5
6	123.50000000000001
7	247.00000000000003
8	1235
9	494.00000000000006
10	1976.0000000000002
11	2470
12	494
13	4940
14	464
15	6175.0000000000009
16	148.20000000000002
17	3952.0000000000005
18	4199

### Q233C\_E: Q233C. e. PRODUCT 1: Unit of quantity

Data file: seed\_treatment

## Overview

Valid: 0 Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category
G/KG	G/KG
GRAM/HECT	GRAM/HECT
MILLILITER/HECT	MILLILITER/HECT

### Q233C\_F: Q233C. f. PRODUCT 1: Amount of H2O solved in LITERS per

Data file: seed\_treatment

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 24.7 - 741 Format: Numeric

### 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
DIAEACL	DIAEACL
DISEASE	DISEASE
DISEASES	DISEASES
Disease	Disease
Diseases	Diseases
FUNGI	FUNGI
FUNGICIDE	FUNGICIDE
FUNJI	FUNJI
Fungal	Fungal
Fungi	Fungi
Fungi disease	Fungi disease
GRASS	GRASS
Groth plant	Groth plant
HERBICIDE	HERBICIDE

HERBS	HERBS
INSECT	INSECT
INSECTICIDE	INSECTICIDE
INSECTIDE	INSECTIDE
PEST	PEST
PESTS	PESTS
PLANT	PLANT
PLANT GROWTH	PLANT GROWTH
PODT	PODT
Pest	Pest
Plant grow	Plant grow
Plant growth	Plant growth
WEED	WEED
WEEDING	WEEDING
Weed	Weed
Weed post emergence	Weed post emergence
Weed post-emergence	Weed post-emergence
Weed pre-emergence	Weed pre-emergence
Weed pre-emergency	Weed pre-emergency
fungi disease	fungi disease
weed	weed

## 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 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	Yes
2	No

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

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 2018 - 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
nigeriarice1	nigeriarice1

### 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
Nigeria	Nigeria

### 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
54100100	54100100
54100500	54100500
54100700	54100700
54100800	54100800
54101200	54101200
54101300	54101300
54101600	54101600
54101700	54101700
54102100	54102100
54102300	54102300
54200200	54200200
54200300	54200300
54200400	54200400
54200600	54200600
54200900	54200900
54201000	54201000
54201100	54201100
54201400	54201400
54201500	54201500
54201800	54201800
54201900	54201900

54202000	54202000
54202200	54202200
54202400	54202400
54202500	54202500

## 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
rice	rice

## 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: 0.396761133603239 - 5 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 - 5 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: 1 - 5 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: 2.47 - 8.65 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: 0.23121387283237 - 2.02429149797571 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: 0.583333333333333 - 82.5 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 - 10.9 Format: Numeric

**POTASSIUMEFFICIENCY: 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 - 20.75 Format: Numeric

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

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 5.19699421965318 - 30.36 Format: Numeric

**PESTICIDEEFFICIENCY: 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: 0.101723309248555 - 2.36388663967611 Format: Numeric

**HERBICIDEEFFICIENCY: 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: 0.00351666666666667 - 1.4782 Format: Numeric

**FUNGICIDEEFFICIENCY: 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: 0.0102821155452734 - 0.485 Format: Numeric

**INSECTICIDEEFFICIENCY: 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: 0.00049959546925566 - 2.16194331983806 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 - 900000 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: 5.82995951417004 - 128 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: 1.35089496791624 - 46.6666666666667 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
2018-05-01	2018-05-01
2018-05-03	2018-05-03
2018-05-25	2018-05-25
2018-06-01	2018-06-01
2018-06-03	2018-06-03
2018-06-05	2018-06-05
2018-06-06	2018-06-06
2018-06-09	2018-06-09
2018-06-10	2018-06-10
2018-06-11	2018-06-11
2018-06-12	2018-06-12
2018-06-15	2018-06-15
2018-06-23	2018-06-23
2018-06-30	2018-06-30
2018-07-02	2018-07-02
2018-07-10	2018-07-10
2018-07-15	2018-07-15
2018-07-16	2018-07-16
2019-04-02	2019-04-02
2019-05-20	2019-05-20

2019-05-25	2019-05-25
2019-05-27	2019-05-27
2019-05-30	2019-05-30
2019-06-01	2019-06-01
2019-06-02	2019-06-02
2019-06-05	2019-06-05
2019-06-07	2019-06-07
2019-06-08	2019-06-08
2019-06-10	2019-06-10
2019-06-12	2019-06-12
2019-06-14	2019-06-14
2019-06-15	2019-06-15
2019-06-16	2019-06-16
2019-06-19	2019-06-19
2019-06-20	2019-06-20
2019-06-27	2019-06-27

## 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
2018-06-01	2018-06-01
2018-06-05	2018-06-05
2018-06-06	2018-06-06
2018-06-09	2018-06-09
2018-06-10	2018-06-10
2018-06-12	2018-06-12
2018-06-15	2018-06-15
2018-06-18	2018-06-18
2018-06-20	2018-06-20
2018-06-21	2018-06-21
2018-06-23	2018-06-23



2018-06-26	2018-06-26
2018-07-01	2018-07-01
2018-07-02	2018-07-02
2018-07-03	2018-07-03
2018-07-04	2018-07-04
2018-07-05	2018-07-05
2018-07-06	2018-07-06
2018-07-08	2018-07-08
2018-07-10	2018-07-10
2018-07-15	2018-07-15
2018-07-16	2018-07-16
2019-06-01	2019-06-01
2019-06-10	2019-06-10
2019-06-14	2019-06-14
2019-06-15	2019-06-15
2019-06-18	2019-06-18
2019-06-19	2019-06-19
2019-06-24	2019-06-24
2019-06-25	2019-06-25
2019-06-26	2019-06-26
2019-06-27	2019-06-27
2019-06-28	2019-06-28
2019-06-29	2019-06-29
2019-06-30	2019-06-30
2019-07-01	2019-07-01
2019-07-03	2019-07-03
2019-07-05	2019-07-05
2019-07-07	2019-07-07
2019-07-10	2019-07-10
2019-07-14	2019-07-14

## **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
2018-09-30	2018-09-30
2018-10-01	2018-10-01
2018-10-10	2018-10-10
2018-10-15	2018-10-15
2018-10-20	2018-10-20
2018-10-21	2018-10-21
2018-10-23	2018-10-23
2018-10-27	2018-10-27
2018-10-28	2018-10-28
2018-10-29	2018-10-29
2018-10-30	2018-10-30
2018-11-01	2018-11-01
2018-11-03	2018-11-03
2018-11-05	2018-11-05
2018-11-07	2018-11-07
2018-11-15	2018-11-15
2018-12-01	2018-12-01
2019-08-15	2019-08-15
2019-10-01	2019-10-01
2019-10-02	2019-10-02
2019-10-03	2019-10-03
2019-10-13	2019-10-13
2019-10-14	2019-10-14
2019-10-17	2019-10-17
2019-10-29	2019-10-29
2019-11-01	2019-11-01
2019-11-02	2019-11-02
2019-11-04	2019-11-04
2019-11-05	2019-11-05
2019-11-07	2019-11-07
2019-11-10	2019-11-10
2019-11-12	2019-11-12
2019-11-15	2019-11-15
2019-11-16	2019-11-16
2019-11-22	2019-11-22

2019-11-25

2019-11-25

**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

Value	Category
2018-10-07	2018-10-07
2018-10-30	2018-10-30
2018-11-01	2018-11-01
2018-11-02	2018-11-02
2018-11-03	2018-11-03
2018-11-06	2018-11-06
2018-11-08	2018-11-08
2018-11-10	2018-11-10
2018-11-15	2018-11-15
2018-11-25	2018-11-25
2018-11-27	2018-11-27
2018-11-30	2018-11-30
2018-12-01	2018-12-01
2018-12-05	2018-12-05
2019-08-16	2019-08-16
2019-10-15	2019-10-15
2019-10-16	2019-10-16
2019-11-02	2019-11-02
2019-11-03	2019-11-03
2019-11-06	2019-11-06
2019-11-08	2019-11-08
2019-11-10	2019-11-10
2019-11-11	2019-11-11
2019-11-12	2019-11-12
2019-11-13	2019-11-13
2019-11-14	2019-11-14

2019-11-16	2019-11-16
2019-11-17	2019-11-17
2019-11-19	2019-11-19
2019-11-23	2019-11-23
2019-11-25	2019-11-25
2019-11-27	2019-11-27
2019-11-29	2019-11-29
2019-11-30	2019-11-30

**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
Nigeria	Nigeria

**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
nigeriarice1	nigeriarice1

**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
54100100	54100100
54100500	54100500
54100700	54100700
54100800	54100800
54101200	54101200
54101300	54101300
54101600	54101600
54101700	54101700
54102100	54102100
54102300	54102300
54200200	54200200
54200300	54200300
54200400	54200400
54200600	54200600
54200900	54200900
54201000	54201000
54201100	54201100
54201400	54201400
54201500	54201500
54201800	54201800
54201900	54201900
54202000	54202000
54202200	54202200
54202400	54202400
54202500	54202500

### **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: Farmland**

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 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	very useful
2	rather useful

### **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
rice	rice

## Q56A2\_99: Q56A2. Growing area changed from previous year? 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

## 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: 2.47 - 14.82    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: 1947 - 1990 Format: Numeric

**Q28: Q28. Gender****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	male

## 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: 3 - 31    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

## 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 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes

2	no
---	----

## 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 no tillage to reduced tillage
2	from conventional tillage to no 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: 1 - 20 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

**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: 10 - 50 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
04	04
05	05
06	06
07	07
08	08
09	09
10 very satisfied	10 very satisfied

### 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

**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: 3 - 20 Format: Numeric

**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: 2 - 10 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 grassland

### 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 - 20 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\_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\_12: Q66. Which crops do you intercrop? Pepper****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**

## CATEGORIES

Value	Category
1	not mentioned
2	mentioned

**Q66\_14: Q66. Which crops do you intercrop? Rice****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

**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**

## 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\_21: Q66. Which crops do you intercrop? Wheat****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\_30: Q66. Which crops do you intercrop? Cabbage****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\_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\_41: Q66. Which crops do you intercrop? Cucumber

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

### Q66\_62: Q66. Which crops do you intercrop? Millet

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\_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\_91: Q66. Which crops do you intercrop? Sorghum

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\_12: Q61. What crops are you cultivating in rotation? Pepper

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\_14: Q61. What crops are you cultivating in rotation? Rice

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

## 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\_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

### Q61\_21: Q61. What crops are you cultivating in rotation? Wheat

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\_62: Q61. What crops are you cultivating in rotation? Millet

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\_67: Q61. What crops are you cultivating in rotation? 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

**Q61\_69: Q61. What crops are you cultivating in rotation? Other peppers****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

**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\_91: Q61. What crops are you cultivating in rotation? Sorghum****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

**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 - 7 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	sandy clay soil
2	silty clay soil
3	clay loam soil
4	loamy sand soil
5	sandy loam soil
6	sandy clay loam soil
7	loam 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 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes
2	no

## 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\_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

**Q55E2\_96: Q55E2. Who organized this training? 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

**Q55E2\_97: Q55E2. Who organized this training? 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

**Q55E2\_99: Q55E2. Who organized this training? 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
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### 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 useful at all

## 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

**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
2018-05-01	2018-05-01
2018-05-03	2018-05-03
2018-05-25	2018-05-25
2018-06-01	2018-06-01
2018-06-03	2018-06-03
2018-06-05	2018-06-05
2018-06-06	2018-06-06
2018-06-09	2018-06-09
2018-06-10	2018-06-10
2018-06-11	2018-06-11
2018-06-12	2018-06-12
2018-06-15	2018-06-15
2018-06-23	2018-06-23
2018-06-30	2018-06-30
2018-07-02	2018-07-02
2018-07-10	2018-07-10
2018-07-15	2018-07-15
2018-07-16	2018-07-16
2019-04-02	2019-04-02
2019-05-20	2019-05-20
2019-05-25	2019-05-25
2019-05-27	2019-05-27
2019-05-30	2019-05-30
2019-06-01	2019-06-01
2019-06-02	2019-06-02
2019-06-05	2019-06-05
2019-06-07	2019-06-07
2019-06-08	2019-06-08
2019-06-10	2019-06-10
2019-06-12	2019-06-12

2019-06-14	2019-06-14
2019-06-15	2019-06-15
2019-06-16	2019-06-16
2019-06-19	2019-06-19
2019-06-20	2019-06-20
2019-06-27	2019-06-27

### 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: 37.05 - 80.0033 Format: Numeric

### Q7014A: Q7014.A. Do you cultivate rice in a drought prone environment?

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

### 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
2018-06-01	2018-06-01

2018-06-05	2018-06-05
2018-06-06	2018-06-06
2018-06-09	2018-06-09
2018-06-10	2018-06-10
2018-06-12	2018-06-12
2018-06-15	2018-06-15
2018-06-18	2018-06-18
2018-06-20	2018-06-20
2018-06-21	2018-06-21
2018-06-23	2018-06-23
2018-06-26	2018-06-26
2018-07-01	2018-07-01
2018-07-02	2018-07-02
2018-07-03	2018-07-03
2018-07-04	2018-07-04
2018-07-05	2018-07-05
2018-07-06	2018-07-06
2018-07-08	2018-07-08
2018-07-10	2018-07-10
2018-07-15	2018-07-15
2018-07-16	2018-07-16
2019-06-01	2019-06-01
2019-06-10	2019-06-10
2019-06-14	2019-06-14
2019-06-15	2019-06-15
2019-06-18	2019-06-18
2019-06-19	2019-06-19
2019-06-24	2019-06-24
2019-06-25	2019-06-25
2019-06-26	2019-06-26
2019-06-27	2019-06-27
2019-06-28	2019-06-28
2019-06-29	2019-06-29
2019-06-30	2019-06-30
2019-07-01	2019-07-01
2019-07-03	2019-07-03
2019-07-05	2019-07-05
2019-07-07	2019-07-07
2019-07-10	2019-07-10

2019-07-14

2019-07-14

**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
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 - 1    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	yes

## 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 - 4    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 - 1    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 - 3 Format: Numeric

**Questions and instructions**

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## CATEGORIES

Value	Category
1	medium
2	low
3	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 - 4 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
1	low
2	no pressure
3	medium
4	high

**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: 1 - 5 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: 123.5 - 300 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
2018-09-30	2018-09-30
2018-10-01	2018-10-01
2018-10-10	2018-10-10
2018-10-15	2018-10-15
2018-10-20	2018-10-20
2018-10-21	2018-10-21
2018-10-23	2018-10-23
2018-10-27	2018-10-27
2018-10-28	2018-10-28
2018-10-29	2018-10-29
2018-10-30	2018-10-30
2018-11-01	2018-11-01
2018-11-03	2018-11-03
2018-11-05	2018-11-05
2018-11-07	2018-11-07
2018-11-15	2018-11-15
2018-12-01	2018-12-01
2019-08-15	2019-08-15
2019-10-01	2019-10-01
2019-10-02	2019-10-02
2019-10-03	2019-10-03
2019-10-13	2019-10-13
2019-10-14	2019-10-14
2019-10-17	2019-10-17
2019-10-29	2019-10-29
2019-11-01	2019-11-01
2019-11-02	2019-11-02
2019-11-04	2019-11-04

2019-11-05	2019-11-05
2019-11-07	2019-11-07
2019-11-10	2019-11-10
2019-11-12	2019-11-12
2019-11-15	2019-11-15
2019-11-16	2019-11-16
2019-11-22	2019-11-22
2019-11-25	2019-11-25

### 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
2018-10-07	2018-10-07
2018-10-30	2018-10-30
2018-11-01	2018-11-01
2018-11-02	2018-11-02
2018-11-03	2018-11-03
2018-11-06	2018-11-06
2018-11-08	2018-11-08
2018-11-10	2018-11-10
2018-11-15	2018-11-15
2018-11-25	2018-11-25
2018-11-27	2018-11-27
2018-11-30	2018-11-30
2018-12-01	2018-12-01
2018-12-05	2018-12-05
2019-08-16	2019-08-16
2019-10-15	2019-10-15
2019-10-16	2019-10-16
2019-11-02	2019-11-02
2019-11-03	2019-11-03

2019-11-06	2019-11-06
2019-11-08	2019-11-08
2019-11-10	2019-11-10
2019-11-11	2019-11-11
2019-11-12	2019-11-12
2019-11-13	2019-11-13
2019-11-14	2019-11-14
2019-11-16	2019-11-16
2019-11-17	2019-11-17
2019-11-19	2019-11-19
2019-11-23	2019-11-23
2019-11-25	2019-11-25
2019-11-27	2019-11-27
2019-11-29	2019-11-29
2019-11-30	2019-11-30

### 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

### Q244: Q244. Marketable yield that has been achieved for growing area A for in per ?

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 2.47 - 8.65 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

**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 - 30 Format: Numeric

### 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: 0 - 40 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: 40 - 100 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

**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: 118560 - 3099850 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: 93860 - 2346500 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: 12350 - 296400 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: 13338 - 839800 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 - 222300 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: 12350 - 1235000 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 - 247000 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 - 197600 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 - 222300 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 - 17290 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 - 34580 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 - 148200 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 - 24700 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: 5 - 20 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: 10 - 44.4 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: 6.2 - 20 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: 20 - 50 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 - 10 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: 1.36 - 10 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 - 15 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 - 5 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 - 28.6 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 - 0 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 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	very favorable weather conditions
2	no favorable weather conditions
3	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 - 4 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	somewhat more than usual
2	somewhat less than usual
3	a lot more than usual
4	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 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	yes

**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 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	no
2	yes

**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 - 4    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
---	-------------------------

**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	no

**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 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	no

**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 - 4 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
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1	rain-fed (no equipment, only natural rainfall)
2	irrigated using irrigation equipment (e.g. rain,
3	other. specify 1:
4	swamp/wetland

### 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: 1 - 120 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 - 10 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: 2 - 4000 Format: Numeric

### Q7016: Q7016. Please indicate what percentage of the area is irrigated for

Data file: Global\_farm\_data

#### Overview

Valid: 0 Invalid: 0

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

### Q7017: Q7017. Which method of irrigation did you apply 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	propelling water as rain
2	flooding the area
3	dispersing drop by drop to the base of the plant

## 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
2019-04-02	2019-04-02
2019-05-20	2019-05-20
2019-05-25	2019-05-25
2019-05-27	2019-05-27
2019-05-30	2019-05-30

2019-06-01	2019-06-01
2019-06-02	2019-06-02
2019-06-05	2019-06-05
2019-06-07	2019-06-07
2019-06-08	2019-06-08
2019-06-10	2019-06-10
2019-06-12	2019-06-12
2019-06-14	2019-06-14
2019-06-15	2019-06-15
2019-06-16	2019-06-16
2019-06-19	2019-06-19
2019-06-20	2019-06-20
2019-06-27	2019-06-27

## 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
2019-06-01	2019-06-01
2019-06-10	2019-06-10
2019-06-14	2019-06-14
2019-06-15	2019-06-15
2019-06-18	2019-06-18
2019-06-19	2019-06-19
2019-06-24	2019-06-24
2019-06-25	2019-06-25
2019-06-26	2019-06-26
2019-06-27	2019-06-27
2019-06-28	2019-06-28
2019-06-29	2019-06-29
2019-06-30	2019-06-30
2019-07-01	2019-07-01

2019-07-03	2019-07-03
2019-07-05	2019-07-05
2019-07-07	2019-07-07
2019-07-10	2019-07-10
2019-07-14	2019-07-14

### 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
2019-08-15	2019-08-15
2019-10-01	2019-10-01
2019-10-02	2019-10-02
2019-10-03	2019-10-03
2019-10-13	2019-10-13
2019-10-14	2019-10-14
2019-10-17	2019-10-17
2019-10-29	2019-10-29
2019-11-01	2019-11-01
2019-11-02	2019-11-02
2019-11-04	2019-11-04
2019-11-05	2019-11-05
2019-11-07	2019-11-07
2019-11-10	2019-11-10
2019-11-12	2019-11-12
2019-11-15	2019-11-15
2019-11-16	2019-11-16
2019-11-22	2019-11-22
2019-11-25	2019-11-25

**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
2019-08-16	2019-08-16
2019-10-15	2019-10-15
2019-10-16	2019-10-16
2019-11-02	2019-11-02
2019-11-03	2019-11-03
2019-11-06	2019-11-06
2019-11-08	2019-11-08
2019-11-10	2019-11-10
2019-11-11	2019-11-11
2019-11-12	2019-11-12
2019-11-13	2019-11-13
2019-11-14	2019-11-14
2019-11-16	2019-11-16
2019-11-17	2019-11-17
2019-11-19	2019-11-19
2019-11-23	2019-11-23
2019-11-25	2019-11-25
2019-11-27	2019-11-27
2019-11-29	2019-11-29
2019-11-30	2019-11-30

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

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 2018 - 2019    Format: Numeric

**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\_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

**Q389\_1: q389\_1. Which water source has been used for irrigation? Private connection to pipeline****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

### Q389\_4: q389\_4. Which water source has been used for irrigation? Public river, stream

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

### Q389\_5: q389\_5. Which water source has been used for irrigation? Public lake, pond

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

### 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
GOT A YIELDFUL HARVEST THIS SEASON	GOT A YIELDFUL HARVEST THIS SEASON
I DID BECAUSE FOLLOWING THE RECOMMENDATION HAS MANY BENEFIT	I DID BECAUSE FOLLOWING THE RECOMMENDATION HAS MANY BENEFIT
I FELT THE PROGRAM WOULD BE VERY IMPROTANT FOR ME. ALSO, AS THE LEADER OF FARMERS IN MY COMMUNITY, I NEED TO BE UP TO DATE WITH MODERN FARMING PRACTICES.	I FELT THE PROGRAM WOULD BE VERY IMPROTANT FOR ME. ALSO, AS THE LEADER OF FARMERS IN MY COMMUNITY, I NEED TO BE UP TO DATE WITH MODERN FARMING PRACTICES.
I NEED TO TRY TO JUSTIFY WHAT THEY SAID IS TRUE	I NEED TO TRY TO JUSTIFY WHAT THEY SAID IS TRUE
I WANTED TO HAVE MORE KNOWLEDGE ON FARMING ACTIVITIES	I WANTED TO HAVE MORE KNOWLEDGE ON FARMING ACTIVITIES
I WANTED TO KNOW HOW TO IMPROVE MY FARMING ACTIVITIES; I FELT THE PROGRAM WAS EDUCATIVE	I WANTED TO KNOW HOW TO IMPROVE MY FARMING ACTIVITIES; I FELT THE PROGRAM WAS EDUCATIVE
IN ORDER TO KEEP LEARNING NEW TECHNIQUES TO SAFEGUARD RICE PRODUCE FROM BEING AFFECTED BY DISEASES	IN ORDER TO KEEP LEARNING NEW TECHNIQUES TO SAFEGUARD RICE PRODUCE FROM BEING AFFECTED BY DISEASES
IT ALLOWED ME LEARN MORE ON HOW TO PROTECT MY CROPS	IT ALLOWED ME LEARN MORE ON HOW TO PROTECT MY CROPS
IT WAS IN ORDER TO BE MORE KNOWLWDGEABLE ON BEST FARMING PRACTICES	IT WAS IN ORDER TO BE MORE KNOWLWDGEABLE ON BEST FARMING PRACTICES
IT WAS VERY INTRESTING AND EDUCATIVE	IT WAS VERY INTRESTING AND EDUCATIVE
THE PROGRAM AIDED ME IN MY FARMING ACTIVITIES; I THINK THE PROGRAM IS VERY IMPORTANT FOR EVERY FARMER IN MY COMMUNITY	THE PROGRAM AIDED ME IN MY FARMING ACTIVITIES; I THINK THE PROGRAM IS VERY IMPORTANT FOR EVERY FARMER IN MY COMMUNITY
THE PROGRAM HELPED ME TO GAIN MORE KNOWLEDGE ON PLANTING OF RICE	THE PROGRAM HELPED ME TO GAIN MORE KNOWLEDGE ON PLANTING OF RICE
TO BE EDUCATED ON HOW TO USE CHEMICALS	TO BE EDUCATED ON HOW TO USE CHEMICALS
TO BE MORE EDUCATED ABOUT FARMING	TO BE MORE EDUCATED ABOUT FARMING
TO GAIN MOE KNOWLEDGE ON FARMING PRACTICES; IT HELPED ME TO TAKE CARE OF MY FARM BETTER	TO GAIN MOE KNOWLEDGE ON FARMING PRACTICES; IT HELPED ME TO TAKE CARE OF MY FARM BETTER
TO GAIN MORE KNOWLEDGE FOR GROWING RICE.	TO GAIN MORE KNOWLEDGE FOR GROWING RICE.
TO GAIN MORE KNOWLEDGE ON CHEMICALS TO APPLY TO AVOID CROP DAMAGE	TO GAIN MORE KNOWLEDGE ON CHEMICALS TO APPLY TO AVOID CROP DAMAGE
TO GAIN MORE KNOWLEDGE ON HOW TO IMPROVE MY FARMING PRACTICES	TO GAIN MORE KNOWLEDGE ON HOW TO IMPROVE MY FARMING PRACTICES
TO HAVE IMPROVEMENT IN SKILLS	TO HAVE IMPROVEMENT IN SKILLS
TO HAVE MORE KNOWLEDGE ON MODERN FARMING PRACTICES	TO HAVE MORE KNOWLEDGE ON MODERN FARMING PRACTICES
TO HAVE MORE KNOWLWDGE ABOUT APPROPRIATE CHEMICALS AND FERTILIZERS.	TO HAVE MORE KNOWLWDGE ABOUT APPROPRIATE CHEMICALS AND FERTILIZERS.
TO LEARN MORE PRODUCTIVE FARMING PRACTICES	TO LEARN MORE PRODUCTIVE FARMING PRACTICES
TO RECIEVE FIRST HAND INFORMATION ON HOW TO USE AND APPLY FORMULAR ON MY FARM.	TO RECIEVE FIRST HAND INFORMATION ON HOW TO USE AND APPLY FORMULAR ON MY FARM.
TO UNDERSTAND THE MOST SUITABLE CHEMICAL TO USE TO AVOID CROP DAMAGE	TO UNDERSTAND THE MOST SUITABLE CHEMICAL TO USE TO AVOID CROP DAMAGE

WHEN I STARTED THE PROMGRAM I ENJOYED IT AND I DECEIDED TO COMPLETE IT	WHEN I STARTED THE PROMGRAM I ENJOYED IT AND I DECEIDED TO COMPLETE IT
---	---

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

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 2018 - 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
B	B

**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
NigeriaRice1	NigeriaRice1

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

Valid: 0    Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category
Nigeria	Nigeria

### 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
54100100	54100100
54100500	54100500
54100700	54100700
54100800	54100800
54101200	54101200
54101300	54101300
54101600	54101600
54101700	54101700
54102100	54102100

54102300	54102300
54200200	54200200
54200300	54200300
54200400	54200400
54200600	54200600
54200900	54200900
54201000	54201000
54201100	54201100
54201400	54201400
54201500	54201500
54201800	54201800
54201900	54201900
54202000	54202000
54202200	54202200
54202400	54202400
54202500	54202500

## 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

## 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
Rice	Rice

## 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
3	3
4	4
5	5

## 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
2018-06-07	2018-06-07
2018-06-09	2018-06-09
2018-06-14	2018-06-14
2018-06-15	2018-06-15
2018-06-21	2018-06-21
2018-06-25	2018-06-25



2018-06-27	2018-06-27
2018-06-30	2018-06-30
2018-07-01	2018-07-01
2018-07-02	2018-07-02
2018-07-03	2018-07-03
2018-07-04	2018-07-04
2018-07-05	2018-07-05
2018-07-06	2018-07-06
2018-07-07	2018-07-07
2018-07-08	2018-07-08
2018-07-09	2018-07-09
2018-07-10	2018-07-10
2018-07-12	2018-07-12
2018-07-14	2018-07-14
2018-07-15	2018-07-15
2018-07-16	2018-07-16
2018-07-19	2018-07-19
2018-07-20	2018-07-20
2018-07-21	2018-07-21
2018-07-29	2018-07-29
2018-07-30	2018-07-30
2018-07-31	2018-07-31
2018-08-01	2018-08-01
2018-08-02	2018-08-02
2018-08-04	2018-08-04
2018-08-08	2018-08-08
2018-08-09	2018-08-09
2018-08-10	2018-08-10
2018-08-11	2018-08-11
2018-08-12	2018-08-12
2018-08-15	2018-08-15
2018-08-16	2018-08-16
2018-08-18	2018-08-18
2018-08-30	2018-08-30
2018-09-01	2018-09-01
2018-09-02	2018-09-02
2018-09-09	2018-09-09
2018-09-10	2018-09-10
2018-09-13	2018-09-13

2018-09-22	2018-09-22
2018-09-24	2018-09-24
2018-09-27	2018-09-27
2018-09-29	2018-09-29
2019-05-28	2019-05-28
2019-05-30	2019-05-30
2019-06-01	2019-06-01
2019-06-03	2019-06-03
2019-06-12	2019-06-12
2019-06-19	2019-06-19
2019-06-27	2019-06-27
2019-06-29	2019-06-29
2019-06-30	2019-06-30
2019-07-01	2019-07-01
2019-07-02	2019-07-02
2019-07-03	2019-07-03
2019-07-05	2019-07-05
2019-07-06	2019-07-06
2019-07-07	2019-07-07
2019-07-08	2019-07-08
2019-07-10	2019-07-10
2019-07-13	2019-07-13
2019-07-14	2019-07-14
2019-07-15	2019-07-15
2019-07-16	2019-07-16
2019-07-17	2019-07-17
2019-07-18	2019-07-18
2019-07-19	2019-07-19
2019-07-20	2019-07-20
2019-07-21	2019-07-21
2019-07-22	2019-07-22
2019-07-23	2019-07-23
2019-07-24	2019-07-24
2019-07-25	2019-07-25
2019-07-27	2019-07-27
2019-07-30	2019-07-30
2019-08-01	2019-08-01
2019-08-02	2019-08-02
2019-08-03	2019-08-03

2019-08-05	2019-08-05
2019-08-07	2019-08-07
2019-08-08	2019-08-08
2019-08-09	2019-08-09
2019-08-12	2019-08-12
2019-08-13	2019-08-13
2019-08-14	2019-08-14
2019-08-15	2019-08-15
2019-08-20	2019-08-20
2019-08-22	2019-08-22
2019-09-03	2019-09-03
2019-09-05	2019-09-05
2019-09-10	2019-09-10
2019-09-21	2019-09-21
2019-09-22	2019-09-22
2019-09-25	2019-09-25
2019-10-12	2019-10-12
2019-10-20	2019-10-20

## Q241B: Q241 b.Type of product

Data file: Crop\_protection

### Overview

Valid: 0 Invalid: 0

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

### Questions and instructions

#### CATEGORIES

Value	Category
1	Herbicide
2	Insecticide
3	Fungicide
4	Plant growth regulator, harvest aids,adjuvants

## 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
BISPYRIBAC-SODIUM	BISPYRIBAC-SODIUM
BUTACHLOR	BUTACHLOR
CYPERMETHRIN	CYPERMETHRIN
DICHLORVOS	DICHLORVOS
Do not know	Do not know
GLYPHOSATE	GLYPHOSATE
LAMBDA CYHALOTHRIN	LAMBDA CYHALOTHRIN
MANCOZEB (VONDOZEB)	MANCOZEB (VONDOZEB)
NIKOSULPHURON	NIKOSULPHURON
OXADIARGYL	OXADIARGYL
PRETILACHLOR	PRETILACHLOR

### C241CP1: CODED VARIABLE - amount of ai1

Data file: Crop\_protection

#### Overview

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 40 - 1000    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
IMIDACLOPRID	IMIDACLOPRID
METALAXIL-M	METALAXIL-M
PROFENOFOS	PROFENOFOS
PYRIBENZOXIM	PYRIBENZOXIM

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

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 4 - 400    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: 50 - 1000    Format: Numeric

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

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 247 - 4940    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: 24.7 - 741 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
99	99
control of grass	control of grass
disease	disease
fungi	fungi
insect	insect
insects	insects
mongozak	mongozak
pest	pest
pest;weed	pest;weed
plant booster	plant booster
plant growth	plant growth
unwanted plant	unwanted plant

weed	weed
------	------

## 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: 8 - 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: 2 - 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 - 3 Format: Numeric

### Questions and instructions

#### CATEGORIES



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

### 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: 2018 - 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
Nigeria	Nigeria

**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
NigeriaRice1	NigeriaRice1

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

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 54100100 - 54202500 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
3	3
4	4
5	5

**GPS\_OPTION: gps\_option****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	interviewer captures at least two points per field
2	interviewer walks around the field
3	Only one reference captured

## 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	Square

## 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
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

### 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
064	064

## ADMIN\_LEVEL\_1: administrative area 1

Data file: Location

### Overview

Valid: 0 Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category
BA	BA
JG	JG
KN	KN
KT	KT
NS	NS

**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: 2018 - 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
Nigeria	Nigeria

**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
Rice	Rice

**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
NigeriaRice1	NigeriaRice1

## 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
54100100	54100100
54100500	54100500
54100700	54100700
54100800	54100800
54101200	54101200
54101300	54101300
54101600	54101600
54101700	54101700
54102100	54102100

54102300	54102300
54200200	54200200
54200300	54200300
54200400	54200400
54200600	54200600
54200900	54200900
54201000	54201000
54201100	54201100
54201400	54201400
54201500	54201500
54201800	54201800
54201900	54201900
54202000	54202000
54202200	54202200
54202400	54202400
54202500	54202500

## 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 - 13 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Clearing
2	Ploughing
3	Digging
4	Ridging
5	Ripping
6	Land levelling
7	Applying fertilizers
8	Mulching
9	Sowing or planting
10	Applying pesticides
11	Irrigating
12	Harvesting
13	Post handling

### **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

### CATEGORIES

Value	Category
1	Yes
2	No

# study\_resources

## questionnaires

### 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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